Summary Report

Phantom Drum Storage Area Solid Waste Management Unit (SWMU) 47 Marine Corps Air Station, El Toro, California

8 February 2002

Prepared by:
Southwest Division, Naval Facilities Engineering Command
BRAC Programs Office
San Diego, CA 92101-2404

Summary Report

Phantom Drum Storage Area Solid Waste Management Unit (SWMU) 47 Marine Corps Air Station, El Toro, California

8 February 2002

Prepared by:

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File: eltoroar.doc

TRANSMITTAL

Date: 6 August 2002

From: Lynn Marie Hornecker

MCAS FIT

To: Diane Silva

Code OFES.DS Code OSG.DS

Subj: CERCLA Administrative Record Materials

Marine Corps Air Station, El Toro

Installation: Marine Corps Air Station, El Toro

UIC Number: M60050

Document Title (or subject): SWMV 47

Author: TRISS Chesney, DTSC

Recipient: Dean Gould

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SOUTHWESTNAVFACENGCOM BRAC Operations Code 06CC.LMH 1220 Pacific Highway San Diego, California 92132-5190

File: etswmu47tritrfeb2002.doc Page 1

Transmittal

Date: 8 February 2002

From: Lynn Marie Hornecker

To: Triss Chesney

State of California Environmental Protection Agency

Department of Toxic Substances Control (DTSC), Region 4

Site Mitigation Branch, Base Closure Unit

5796 Corporate Avenue Cypress, CA 90630

Subj: Solid Waste Management Unit (SWMU 47)

Phantom Drum Storage Area Marine Corps Air Station, El Toro

Provided for your review as the attachment is the Summary Report for Solid Waste Management. Unit (SWMU) 47, a phantom or non-existent drum storage area at the Marine Corps Air Station (MCAS), El Toro. SWMU 47 was identified as a drum storage area near Building 172 during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). According to the RFA documentation, SWMU 47 was identified on a California Department of Health Services (DHS) photograph dated 1980. The RFA documentation states that the drum storage area could not be located during the visual inspection. Building 172 is located near the northwestern edge of the Golf Course on "Z" Street in the southeastern section of the Station. Building 172 was constructed in 1943 and has been used for the storage of ordnance items and inert items. Nearby structures on "Z" Street, Buildings 170 and 171, were also used for storage of ordnance items.

We evaluated historical documents and photographs, reports for nearby Locations of Concern, property records, and facility maps during the development of the Summary Report. The set of 1980 photographs (Administrative Record Identifier M60050.000924) was reviewed, and none of the written descriptions of the photographs identify Building 172 and none of the photographs depict a building that resembles Building 172. None of the historical records identify hazardous waste storage activities at Building 172. The vicinity of Building 172 was visually inspected by Navy representatives in January and February 2002 during the development of the Summary Report. No stains or discolored areas were observed near the building, and no evidence of hazardous waste storage activities was observed.

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File: etswmu47trltrfeb2002.doc

It is possible that the reference to Building 172 in the RFA documentation was intended for one of the temporary accumulation areas (TAAs) located in the vicinity of Building 172: TAA 772 (located east-northeast of Building 172) and TAA 390B (located west-northwest of Building 172). It is also possible that the reference to Building 172 was intended for the vicinity of Building 672; drum storage activities near Building 672 are shown in a 1980 photograph. A transcription error could have resulted in the identification of Building 672 as Building 172 in the RFA report. TAA 672, TAA 390B, and TAA 772 have been or are in the process of being investigated under the RFA program, and TAA 390B has achieved no further action status.

Based upon our review of historical records, the absence of evidence of hazardous waste storage activities at Building 172, and the management of the nearby TAAs under the RFA program, we are recommending that SWMU 47 (drum storage area near Building 172) be designated a phantom or non-existent site and that SWMU 47 be deleted from the list of Locations of Concern in the next MCAS El Toro BRAC Business Plan update.

If we do not receive comments from your office within sixty (60) days of receipt of this transmittal, then we will assume that you concur with our recommendations to designate SWMU 47 a phantom or non-existent site and to delete SWMU 47 from the list of Locations of Concern.

Please do not hesitate to call me at (619) 532-0783 if you have questions on the attachment. Thank you very much.

Attachment Summary Report, SWMU 47 (SWDIV, February 2002)

CF: Dean Gould (MCAS El Toro BEC) Project File (MCAS El Toro)

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Section 1 Introduction

The purpose of this Summary Report is to present information pertaining to a duplicate drum storage area, designated as Solid Waste Management Unit (SWMU) 47 near Building 172, in the southeastern section of the Marine Corps Air Station (MCAS), El Toro. SWMU 47 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). The RFA documentation indicates that SWMU 47 was identified as a drum storage area near Building 172 in a California Department of Health Services (DHS) photograph taken in 1980.

The Marine Corps Air Station, El Toro, also known as the Station, comprises approximately 4,700 acres in eastern Orange County approximately 45 miles southeast of Los Angeles, California. SWMU 47 is located in the southeastern section of the Station near Building 172 – a former storage facility for ordnance items. Building 172 is located on "Z" Street near the Golf Course as shown on Figure 1.

The Station closed on 2 July 1999 in accordance with the Base Realignment and Closure Act of 1993 (BRAC III). SWMU 47 is located within a parcel designated for future use as a golf course according to *The Preferred Land Use Plan, Concept B* (County of Orange, August 1999) as shown on Figure 2.

This Summary Report includes a description of information collected during a review of historical property records, environmental compliance management plans, documentation for nearby locations of concern, and the results of visual inspections of the site. The records show that Building 172 was constructed in approximately 1943 as a storage facility for ordnance items. The historical records did not identify the use of Building 172 for the storage of hazardous waste. Building 172 is located in the vicinity of hazardous waste Temporary Accumulation Area (TAA) 390B and TAA 772. Building 172 is located southwest of Defense Reutilization and Marketing Office (DRMO) Yard #3 that was investigated as SWMU 264 and that is being evaluated under the Historical Radiological Assessment/Radiological Survey program as of February 2002. Building 172 is also located south-southeast of Building 673-T3, a former RCRA-permitted hazardous waste storage area.

Based upon the historical documentation and the results of visual inspections of the Building 172 vicinity, it is recommended that SWMU 47 be designated a phantom or non-existent site and that SWMU 47 be deleted from the inventory of Locations of Concern in the next BRAC Business Plan update.

Section 2 Field Inspections and Historical Records

2.1 Field Inspections and Sampling Activities at nearby Locations of Concern. SWMU 47 was described as a drum storage area near Building 172. A review of records and visual inspections were conducted during the preparation of the *Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California* (Jacobs Engineering Group (JEG) 1993). The RFA documentation for the visual inspection states the following: "A 1980 DHS photograph identifies a DSA located in the vicinity of Building 172. Building 172 is located between "Z" Street and the 5th green of the golf course. The building is bordered by asphalt pavement to the north and unpaved soil and grass areas on the other three sides. A concrete loading dock is located on the northern side of the building. No significant stains were observed on the surrounding areas that would possibly indicate the location of the DSA. The location of the DSA could not be identified during the visual site inspection or from information in the photograph." Extracts from the RFA documentation are included in the Appendix.

The SWMU 47 vicinity was visually inspected by representatives of the Navy on 25 January 2002 and 8 February 2002. No stains or evidence of former drum storage activities were observed on the ground surface or on the paved areas adjacent to the Building 172. No stains were observed on the loading dock on the northwest side of Building 172. The interior of Building 172 was also visually inspected on 25 January 2002, and no stains or evidence of hazardous waste storage were observed on the concrete floor.

Industrial activities were conducted at the nearby Building 390, a golf cart maintenance shop, while the Station was operational and two former temporary accumulation area (TAA) sites are associated with Building 390: TAA 390A and TAA 390B. Building 390 was leased to the County of Orange under a master lease, and Building 390 is utilized for comparable activities by the County of Orange as of February 2002.

2.2 Historical Property Records and Environmental Program Records
Property records and information from previously published environmental compliance
and environmental restoration program projects were acquired and reviewed. Some of
the documents are included in the Comprehensive Environmental Response,
Compensation, and Liability Act (CERCLA) Administrative Record. Information
pertaining to Building 172 and the SWMU 47 vicinity is summarized in Tables 1 and 2.
No further action decision documents for selected nearby locations of concern are
included in the Appendix.

Table 1. MCAS El Toro Historical Property Records for the Building 172 Vicinity.

Building Identification Number	Approximate year of construction	Type of Use	Comments
172	1943	Storage	The building is constructed of concrete (floor and walls) and comprises approximately 1,250 square feet (50 feet by 25 feet).
			The building is located on "Z" Street near the Golf Course. The building was used for storage of ordnance items including small arms and pyrotechnics.
			The building was vacant in 1993 when the inspections of facilities were conducted for the Storm Water Pollution Prevention Plan (SWPPP). The SWPPP identifies Building 172 as an inert storehouse.
772	1983	HW Storage Area	TAA 772 is located east-northeast of Building 172. Drums would have been stored at TAA 772 while the TAA was operational.
390	1955	Golf Cart Building	Golf cart maintenance activities were conducted at this facility while MCAS El Toro was operational. Building 390 included a fuel dispensing station with two USTs and a wash rack.
			There were two temporary accumulation areas, known as TAA 390B, on the southeast side of Building 390 where drums would have been stored.
673T-3		Former RCRA- permitted hazardous waste storage facility	The site is located north-northwest of Building 172 and was closed with DTSC oversight in 1996.
673	1974	Former Ground Support Equipment Maintenance Shop	Building 673 is located adjacent to Building 673-T3. A temporary accumulation area (TAA 673) is located near Building 673, and TAA 673 is being managed under the RFA program.

Historical Photographs dated 1980

The RFA documentation indicates that the drum storage area was identified on a DHS photograph taken in 1980. The set of photographs dated 1980 (Administrative Record ID M60050.000984) were reviewed, and none of the descriptions of the photographs mention Building 172. None of the photographs resemble Building 172. A copy of the descriptions of the photographs is included in the Appendix. The photograph list for the 1980 photographs includes Building 672 in the southwestern section of the Station, and a temporary accumulation area (TAA) 672 (also known as SWMU 177) is being addressed at that site. It is possible that a transcription error during the RFA caused Building 172 to be associated with a photograph of a drum storage area near Building 672.

Regional Water Quality Control Board, Santa Ana Region Correspondence
The RWQCB letter dated 23 June 1989 addresses several storage areas, however, the
letter does not include Building 172. A copy of the letter is included in the Appendix.

Hazardous Materials/Hazardous Waste Management Plan (HM/HWMP) Visual inspections of TAAs were conducted in 1993, and the HM/HWMP (SAIC 1994) identifies a hazardous waste accumulation area on the southeast side of Building 390 that corresponds to TAA 390B. Extracts from the HM/HWMP are included in the Appendix.

A list of areas where hazardous materials or wastes were generated or stored was included in the *Oil and Hazardous Substance Spill Prevention, Control, and Countermeasure Field Survey Report and SPCC Plan* (SCS Engineers 1979/Administrative Record Identifier M60050.000808). The list does not identify Building 172.

A list of sites recommended for additional investigation was developed in 1989 (Administrative Record # M60050.000776) and the list entitled "Additional Sites Needing Investigation" is included in the Appendix. The list does not identify Building 172, however, the list identifies a wash rack at Building 390. The wash rack at the southwest side of Building 390 has been taken out of service and demolished, and the wash rack was investigated as SWMU 120 during the RFA.

Storm Water Pollution Prevention Plan (SWPPP)

Visual inspections of areas where hazardous materials and hazardous wastes were stored were conducted in 1993. No specific comments or recommendations for additional best management practices were provided for Building 172 (IEM 1997). The SWPPP also includes a spill history table in Section 5, and this table does not identify historic spills at Building 172. Extracts from the SWPPP are included in the Appendix.

Underground Storage Tank (UST) Program

SWMU 47 is located near Building 390 where two underground storage tanks (USTs) were removed from a former fuel dispensing station. UST 390A and UST 390B, located on the northwest side of Building 390, are being assessed with oversight by the Regional Water Quality Control Board, Santa Ana Region. UST 762B (SWMU 209) and Oil/Water Separator (OWS) 672A (SWMU 208) were located at the wash rack at the southwest side of Building 390, and both tanks were removed and the tank sites were closed by the Orange County Health Care Agency.

Temporary Accumulation Areas

Temporary Accumulation Area (TAA) 390B (SWMU 261) and TAA 772 (SWMU 225) are located in the vicinity of Building 172. TAA 390B is located west-northwest of Building 172, and TAA 772 is located east-northeast of Building 172. TAA 772 is more distant, approximately 300 feet from Building 172, while TAA 390B is located on the southeastern side of Building 390, approximately 100 feet from Building 172. Drums would have been stored at the TAAs while the TAAs were in operation.

The temporary accumulation areas at Building 390 have been investigated and closed by the California Department of Toxic Substances Control, and a copy of the closure letter is included in the Appendix. TAA 772 is under investigation as of February 2002.

Aerial Photograph Anomalies

Science Applications International Corporation (SAIC) evaluated historical aerial photographs of the MCAS El Toro and the results of the evaluation are published in the *Final Report, Aerial Photograph Assessment, MCAS El Toro* (SAIC, 1993). The United States Environmental Protection Agency (USEPA) evaluated historical aerial photographs of MCAS El Toro and the results of the evaluation are published in the *Site Analysis, El Toro MCAS, Orange County, California* (USEPA, 1991). SAIC identified anomalies in the vicinity of Building 172. APHO 20 (SAIC 164) and APHO 21 (SAIC 165) encompassed Building 172 and adjacent areas. The California Department of Toxic Substances Control concurred with no further action status for APHO 20 and APHO 21 in March 2000.

Installation Restoration Program

Installation Restoration Program (IRP) Site 5 - Perimeter Road Landfill - is located southeast of Building 172. A Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Record of Decision is in the process of being developed for IRP Site 5 as of February 2002.

Table 2. Information from Environmental Restoration Program Projects in the SWMU 47 Vicinity.

Building Identification Number or Feature Identifier	Status Comments		
SWMU 47		SWMU 47 was identified as a drum storage area near Building 172.	
		This Summary Report recommends that SWMU 47 be deleted as a duplicate site for the Temporary Accumulation Area (TAA) 390B that is located within approximately 100 feet of Building 172.	
SWMU 264	NFA pending results of Radiological Survey	Former Defense Reutilization and Marketing Office (DRMO) Yard 3 was investigated during the RFA as SWMU 264. SWMU 264 is located northeast of Building 172.	
TAA 390B	NFA	TAA 390B is located west-northwest of Building 172. DTSC concurred with no further action status in the letter dated June 1999.	
TAA 772	Under investigation	TAA 772 is located east-northeast of Building 172.	
USTs 390A & 390B (fuel storage tanks)	Under investigation	Comments from the Regional Water Quality Control Board, Santa Ana Region are in the process of being addressed as of February 2002.	
APHO 20 and APHO 21	NFA	DTSC concurred with no further action status in the letter dated March 2000.	
Building 673-T3	NFA	DTSC concurred with the closure report for Building 673-T3, a former RCRA-permitted hazardous waste storage facility, in March 1996. Building 673-T3 is located north-northwest of Building 172.	
UST 762B and OWS 762A	NFA	The tanks were removed in 1997, and the Orange County Health Care Agency concurred with no further action status in 1997. The tank sites are located at the southwest side of Building 390, and the tanks received wash water from the wash rack (SWMU 120) that was located nearby.	

2.3 Ground Water Conditions

Groundwater conditions in the vicinity of Building 172 were investigated during the remedial investigation of IRP Site 18, and a group of monitoring wells is located in close proximity to Building 172. Well group 18_BGMW02 is located approximately east of Building 172, between Building 172 and TAA 772. There are also three groundwater monitoring wells located approximately northwest of Building 172 at the former UST Sites 390A and 390B. Groundwater flows toward the west-northwest in the vicinity of Building 172 and Building 390.

Section 3 Findings and Recommendations

The following findings are based upon information collected during the record search activities, the RFA documentation, and from observations during the visual inspections of the vicinity of SWMU 47 near Building 172:

- SWMU 47, a drum storage area near Building 172, was identified in the Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California (Jacobs Engineering Group 1993). The report states that a 1980 DHS photograph identified the site near Building 172, however, the 1980 photograph is not included in the RFA documentation. The RFA Report indicates that SWMU 47 could not be located and no further action status was designated for SWMU 47.
- A group of 30 photographs, all dated 1980, were acquired and reviewed. The photographs are included in the CERCLA Administrative Record as document M60050.000924. The descriptions of the photographs do not identify Building 172, and none of the building shown in the photographs resemble Building 172.
- Building 172 is located near two Temporary Accumulation Areas: TAA 772 (SWMU 225) is located approximately east of Building 172 and TAA 390B (SWMU 261) is located approximately northwest of Building 172. TAA 390B has been closed, and TAA 772 is under investigation as of February 2002. Other areas in the vicinity of Building 172 where drums may have been stored include the former RCRA-permitted hazardous waste storage facility at Building 673-T3 and the former Defense Reutilization and Marketing Office (DRMO) Yard 3.
- Historical documents pertaining to waste management activities were acquired and reviewed, and none of the documents identify storage of hazardous materials or hazardous wastes at Building 172.
- Visual inspections were conducted at the vicinity of Building 172 in January and February 2002. No stains or discolored areas were observed during the inspections, and no evidence of former hazardous waste storage activities was observed. The inside of Building 172 was also visually inspected, and no stains or evidence of hazardous waste storage activities were observed.

Based upon the absence of evidence of industrial activities or hazardous waste storage activities at Building 172 (a former storage facility for ordnance items), the proximity of TAA 390A and TAA 772 that are managed under the RFA program, and the results of the visual inspections of the Building 172 vicinity, it is recommended that SWMU 47 (drum storage area near Building 172) be considered a phantom or non-existent site and that SWMU 47 be deleted from the inventory of locations of concern in the next Business Plan Update.

Section 4 References and/or Sources of Information

County of Orange. 1999. Preferred Land Use Plan, Concept B. August. [prepared by the MCAS El Toro Local Redevelopment Authority]

Integrated Environmental Management (IEM). 1997. Storm Water Pollution Prevention Plan (SWPPP) for Marine Corps Air Station, El Toro, El Toro, California. July. [Contract No. N68711-96-D-2059, Delivery Order Number 0002] {Annotation: The IEM planning document included the acquisition and review of historical and current plans of facilities and utilities. Extracts from the IEM report are presented in the Appendix.}

Jacobs Engineering Group (JEG). 1993. Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California. [Navy Contract N68711-89-D-9296, Contract Task Order 193]

Jacobs Engineering Group (JEG). 1995. Marine Corps Air Station El Toro, El Toro, California, Final Environmental Baseline Survey Report. April. [Navy Contract N68711-89-D-9296, Contract Task Order 284]

Naval Facilities Engineering Command, Southwest Division. 1997. Plant Account Record for MCAS El Toro.

NBS/Lowry Engineers - Planners. 1988. Oil and Hazardous Substance Spill Prevention, Control and Countermeasure Field Survey Report, SPCC Plan, and Spill Contingency Plan for the U. S. Marine Corps Air Station, El Toro, California. [Administrative Record ID # M60050.000800]

Roy F. Weston. 1984. Hazardous Materials/Hazardous Waste Engineering Study. [Administrative Record ID # M60050.000899]

Roy F. Weston. 2000. Final Historical Radiological Assessment (HRA), Marine Corps Air Station, El Toro. May.

Science Applications International Corporation (SAIC). 1994. Final, Marine Corps Air Station, El Toro, Hazardous Material/Hazardous Waste Management Plan {with Appendices C and I, Hazardous Waste Accumulation Areas and Photographs of Accumulation Points and Hazardous Material Storage Areas}. August. [Contract N68711-92-D-4658, Delivery Order Number 4].]

Science Applications International Corporation (SAIC). 1993. Final Report, Aerial Photograph Assessment, MCAS El Toro. Contract N68711-91-D-4658, Delivery Order 0002, SAIC Project No. 01-0892-0817.

SCS Engineers. 1979. Oil and Hazardous Substance Spill Prevention, Control, and Countermeasure Field Survey Report and SPCC Plan (Administrative Record Identifier M60050.000808).

United States Environmental Protection Agency. 1991. Site Analysis, El Toro MCAS, Orange County, California.

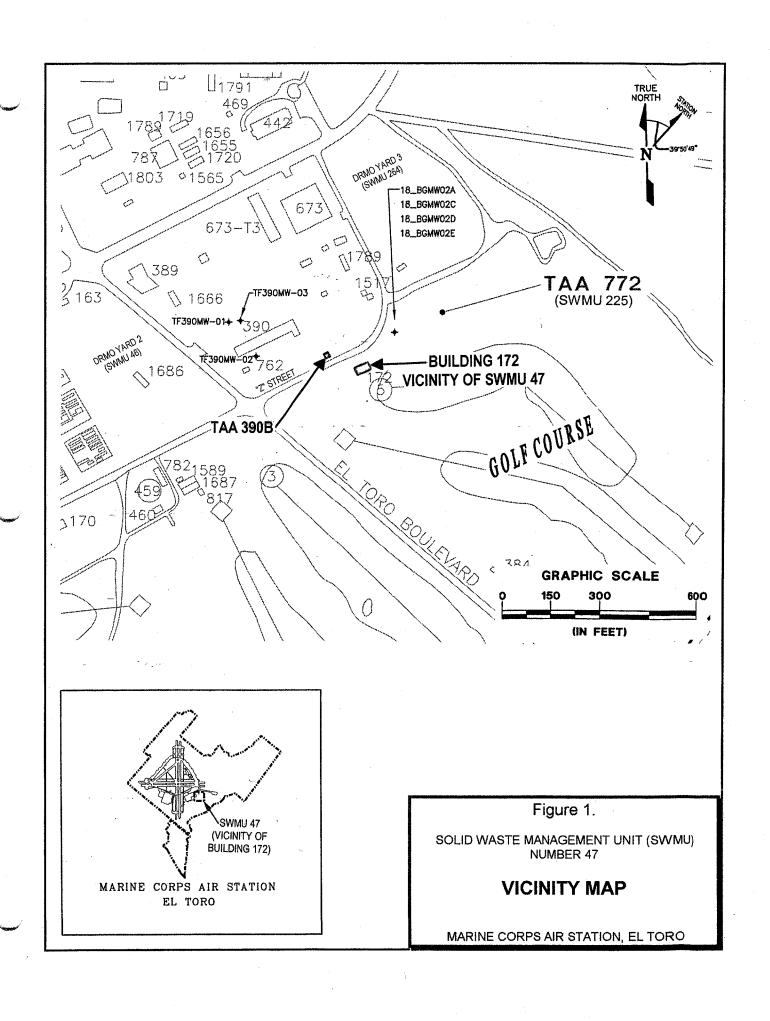
United States Marine Corps Air Station, El Toro. 2001. Base Realignment and Closure (BRAC) Business Plan.

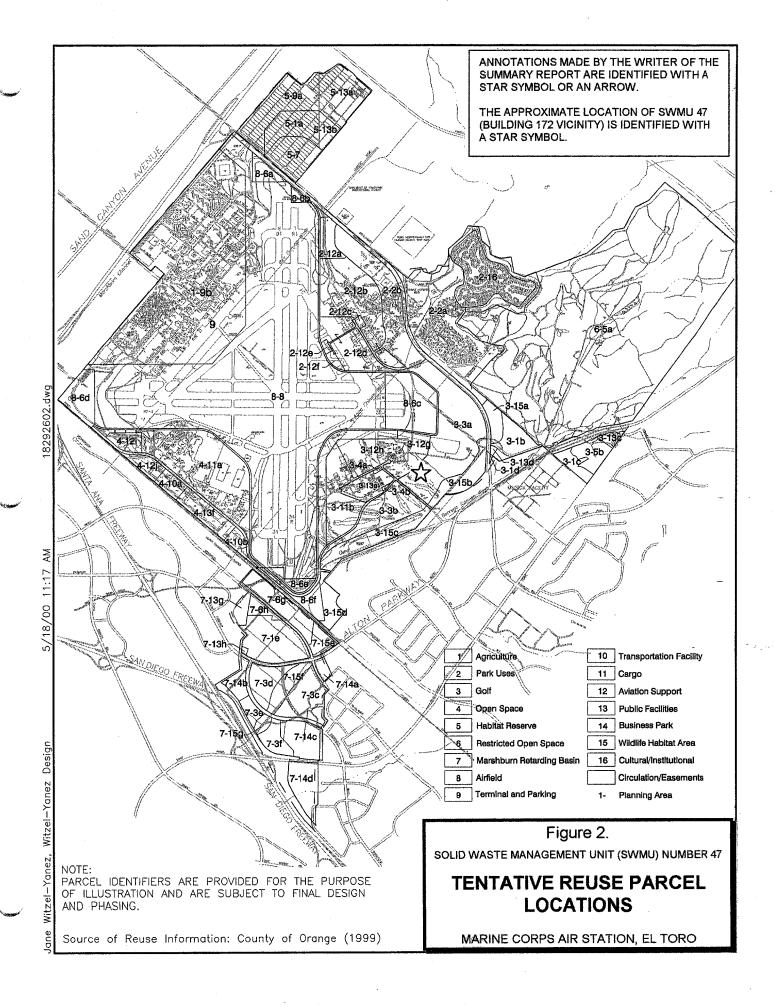
United States Marine Corps Air Station, El Toro. Circa 1946-1999. Station Property Records, Utility Maps, and Building Guides.

United States Marine Corps Air Station, El Toro, Public Works Department. 1954. Master Plot Plan, Proposed Additional Aircraft Parking Facilities in Tactical Area III and Proposed Relocation of Existing Stables. [Alternate drawing identification number Public Works drawing PS-1236]

United States Marine Corps Air Station, El Toro. 1994. Aerial Photograph.

United States Marine Corps Air Station, El Toro. 1996-2000. No Further Action correspondence from RWQCB, OCHCA, and/or DTSC.





Appendix

Site Photographs and Other Documentation

Site Photographs

Extracts from RFA Documentation

Descriptions of 1980 Photographs

Extracts from historical hazardous waste management documents

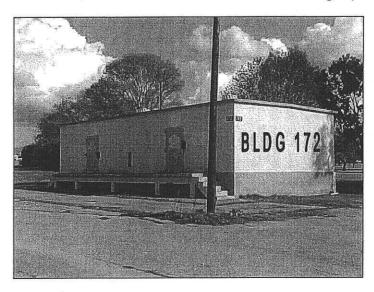
Extracts from MCAS El Toro Property Records, Building Guides, Business Plan, and Historical Facility Maps

No Further Action Decision Documents and Maps for Selected Nearby Locations of Concern

Photograph 1. Phantom Drum Storage Area near Building 172 Solid Waste Management Unit (SWMU) 47

Marine Corps Air Station, El Toro

Date of Photograph: January 2002

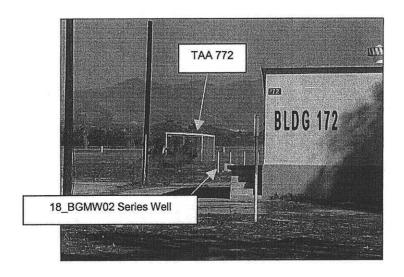


Photograph 2. Phantom Drum Storage Area near Building 172 Solid Waste Management Unit (SWMU) 47

View from Building 172 looking east-northeast.

Marine Corps Air Station, El Toro

Date of Photograph: February 2002

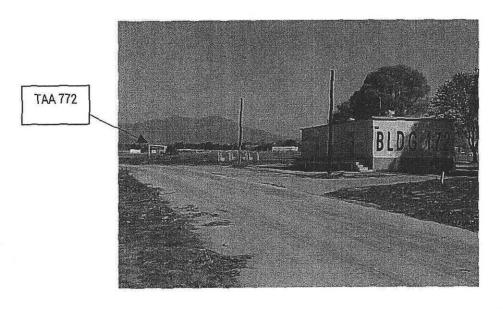


Photograph 3. Phantom Drum Storage Area near Building 172 Solid Waste Management Unit (SWMU) 47

View from Building 172 looking approximately east.

Marine Corps Air Station, El Toro

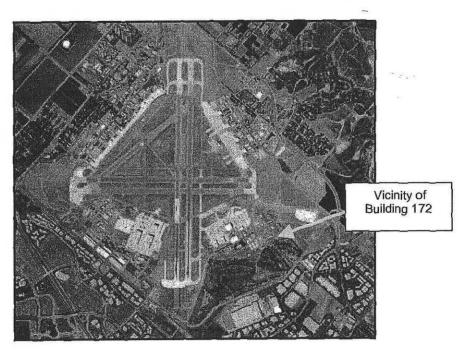
Date of Photograph: February 2002



Photograph 4. Vicinity of Building 172

Phantom Drum Storage Area Solid Waste Management Unit (SWMU) 47

Marine Corps Air Station, El Toro Date of Aerial Photograph: 1994



Extracts from RFA Documentation

MARINE CORPS AIR STATION EL TORO EL TORO, CALIFORNIA INSTALLATION RESTORATION PROGRAM FINAL RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITY ASSESSMENT REPORT

VOLUME 1

16 July 1993

EXTRACTS

PREPARED BY: Southwest Division, Naval Facilities Engineering Command 1220 Pacific Highway San Diego, California 92132-5190

THROUGH:
CONTRACT #N68711-89-D-9296
CTO #193
DOCUMENT CONTROL NO:
CLE-C01-01F193-S2-0001

WITH: Jacobs Engineering Group Inc. 3655 Nobel Drive, Suite 200 San Diego, California 92122

In association with: International Technology Corporation CH2M HILL

Evaluation Form SWMU/Area of Concern Number 47

Name: Drum Storage Area

Location: Building 172

Size: Unknown

Date of Site Visit: 02 May 1991

A 1980 DHS photograph identifies a DSA located in the vicinity of Building 172. Building 172 is located between "Z" Street and the 5th green of the golf course. The building is bordered by asphalt pavement to the north and unpaved soil and grass areas on the other three sides. A concrete loading dock is located on the northern side of the building. No significant stains were observed on the surrounding areas that would possibly indicate the location of the DSA. The location of the DSA could not be identified during the visual site inspection or from information in the photograph.

TABLE 4-1 COMPREHENSIVE LIST OF SWMUS AND AREAS OF CONCERN IDENTIFIED DURING THE PRELIMINARY REVIEW/VISUAL SITE INSPECTION MCAS EL TORO RFA LOCATION/BUILDING SWMU SMWU TYPE SOURCE (1) COMMENTS DATE SIZE MATERIAL CONTENTS 31 Drum Storage Area RI/FS Site 32 Drum Storage Area (2) b 36 33 Hazardous Waste Storage Area Active 51 34 Drum Storage Area C 71 Identified as MCAS Tustin 45,000 sq ft 96 35 Drum Storage Area b 36 Drum Storage Area а 103 Duplicate of SWMU/AOC 27 114 37 Aircraft Wash Area a Duplicate of SWMU/AOC 210 114 38 Drum Storage Area 115 Active 39 Hazardous Waste Storage Area 40 Drum Storage Area (2) 127 3 127 41 Vehicle Wash Rack 3 130 42 a,b Drum Storage Area 137 43 Drum Storage Area (2) 450 sq ft 143 Drum Storage Area (2) a 45 C 155 Drum Storage Area 150 sq ft 163 DRMO Lot 2 Vehicle maintenance and parking 47 С 172 Drum Storage Area (2) 178 48 Underground Storage Tank 1943 Active 50,000 gal Steel-Lined Concrete Waste Oil 49 Underground Storage Tank 179 Active 1943 25,000 gal Steel-Lined Concrete Waste Oil 179 50 C Drum Storage Area 56 sq ft 51 Underground Storage Tank 180 Active 1943 50,000 gal Steel-Lined Concrete Waste JP-5 52 182 Underground Storage Tank Active 1943 25,000 gal Steel-Lined Concrete Waste Oil 53 Underground Storage Tank 185 Identified as MCAS Tustin Unknown 750 gai Steel Waste Oil 185 Identified as MCAS Tustin Underground Storage Tank Unknown 750 gal Steel Waste Oil 186 55 Drum Storage Area (2) C 20 sq ft 56 187 Drum Storage Area (2) C 172 sq ft 57 189 Underground Storage Tank Active 1943 50,000 gal Steel-Lined Concrete Waste Oil 189 58 Underground Storage Tank Active 1988 2,000 gal Fiberglass-Coated Steel Waste Oil 191 59 Underground Storage Tank Active 1943 25,000 gal Steel-Lined Concrete Waste Oil 204 Underground Storage Tank Release detection 1989, Active 1943 50,000 gal Steel-Lined Concrete Waste JP-5

TABLE 4-1

COMPREHENSIVE LIST OF SWMU® AND AREAS OF CONCERN IDENTIFIED DURING THE PRELIMINARY REVIEW/VISUAL SITE INSPECTION

MCAS EL TORO RFA

1	MOZO AS TOTO WA							
SWMU	SMWU TYPE	SOURCE (1)	LOCATION/BUILDING	COMMENTS	DATE	SIZE	MATERIAL	CONTENTS
301	Mark Arrest System	m	East side of Runway 34R					
302	Mark Arrest System	m	West side of Runway 34R					
303	Underground Storage Tank	m	359					
304	Trenches inside Building 359	m	359					
305	Septic Tank		601	,		2,000 gal	Concrete	Sanitary Waste
306	Septic Tank	1	687			2,000 gal	Concrete	Sanitary Waste
307	Septic Tank	l	819	•	1986	2,200 gai	Concrete	Sanitary Waste

NOTES:

(1) SOURCE:

Current - Based on site visits Jan-Feb 1991

Past - Based on agency records review and miscellaneous records for MCAS El Toro as identified below:

- a Regional Water Quality Control Board, letter to Lt. Rehor (June 23, 1989)
- b SPCC map (no date)
- . c Department of Health Services, 1980 Photographs
- d EPA, Region IX, Compliance Inspection Report, May 1987,
- e interview
- f UST list EG & G Idaho, Inc., November 1990
- 1- Department of Conservation, California Division of Oil and Gas, Long Beach
-] Per MCAS El Toro List of Oil/Water Separators
- k Observed during VSI
- I Other
- m Per Navy direction (added during SV)

(2) SWMU/AOC was not able to be accurately located and/or identified from the records review information and the site visits.

Descriptions of 1980 Photographs

CHARLE PHOTO RECORD FILE INDEX

PROJECT: CTO#193 RFA

M (200 5 MCAS EL TORO ROLL NO. SSIC # 5090.3

2002

M60050.000924 MCAS EL TORO SSIC # 5090.3

PROJECT NO SCE 70022 MR

PREPARED BY:	 		 	 _

PICTURE NUMBER	PHOTO DESCRIPTION/LOCATION	DATE	DAILY LOG NUMBER
	Storage Area View Change - North of Bldg. 360 Facing North	12/8/80	and the second of the second of the second
2	Storage Area 5076 S.F. Available - North of Bldg360 Facing East	12/8/80	
3	Storage Area 12'x30' 360sp.ft West of Bldg. 29	10/29/80	
4	Cash Grew Training Pit 50' Dia 1963sq. ft East of Bldg. 23A	10/28/80	
5	Storage Area 4'x 30' 120 sq. At East of Bldg. 359	10/29/80	
6	Storage Area 2'x 10' 20sq.A South of Bldg. 186	10/28/80	
7	Storage Area 172 sq. ft South of Bldg. 187	10/28/80	
8	Storage Area 15'x 30' 450 sq.A West of Bldg. 297	10/29/80	
9	Storage Area 5'x 10' 50sq. A West of Bldg 297	10/29/80	Parties - August - Au
10	Storage Area 15'x 80' 120sq. Rt East of Bldg 155	10/29/80	
4	Storage Area 12'x 30' 360 sq. A East of Bldg 672	10/29/80	
12	Storage Area 14'x 20'/12'x 6' 352 sq. Ft West of Bldg 297	10/29/80	
18	Storage Area 18' x 40' 720 sq.ft West of Bldg 297	10/29/80	
#	Storage Area 4'x 4' 16 sq. ft West of Bldg 297	10/29/80	
15	Storage Area 5'x 10' 50sq. At North of Bldg 386	10/29/80	
16	Storage Area 25' x30' 600 sq. ft West of Bldg 29	10/29/80	()



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PROJECT NO. SCE 70022 MR

PREPARED BY: _

PICTURE NUMBER	PHOTO DESCRIPTION/LOCATION	DATE	DAILY LOG NUMBER
17	Storage Area 5'x 120' 600 sq. ft North of Bldg 673	10/29/80	
18	Storage Area 12' x 20' 240 sq. ft Fast of Bldg 673	10/29/80	
19	Storage Area 20'x 25' 500 sq. A East of Bldg 673	10/2 9/80	
20		10/29/80	
21	Storage Area Containers - North of Bldg 60, East End of Sty Area	12/08/80	
22	Storage Area 12'x 20' 240 sq. ft South of Bldg 10	10/29/80	
23		10/29/80	
24		10/29/80	
 		10/29/80	
26		10/29/80	
27		10/29/80	
28		10/29/80	
29	Storage Area 3'x20' 60sq. A West of Bldg 306	10/29/80	
<i>3</i> 0	Storage Area 12'x 40' 480 sq. ft West of Bldg 390	10/29/80	

SOUTHWESTNAVFACENGCOM CODE 06CC.LMH SAN DIEGO, CA 92101

Extracts from historical hazardous waste management documents

.iONE: (714) 782-4130

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SANTA ANA REGION NDIANA AVENUE, SUITE 200 SIDE, CALIFORNIA 92506

MLC050.001130



DUPLICATE

June 23, 1989

LTJG Michael Rehor, Environmental Director MCAS El Toro (Code 1JG) Santa Ana, CA 92709-5001

MCAS EL TORO - SITE INSPECTION PLAN OF ACTION

Dear LTJG Rehor:

As we discussed in our May 30, 1989 meeting, we are hereby transmitting our recommendations for additional sites at the El Toro Marine Corps Air Station (MCAS) which we believe should be included in the Site Inspection Plan of Action.

Although the Installation Restoration (IRP) program is intended to address only past facility operations, we believe that some currently operating facilities should be included in the IRP program. Past and current chemical use and disposal practices at these sites may have allowed contaminants to be discharged where they could impact water quality. We believe that it is appropriate to include these sites in the present phase of investigation. The sites listed are areas where trichloroethylene (TCE) is either known or suspected to have been used. Chemical use and disposal practices, documented in the November 1987 Oil and Hazardous Substance Spill Prevention Control and Countermeasure (SPCC) plan, strongly suggest that there are areas on the base where TCE was routinely discharged to bare ground and unlined channels.

Although some of these areas are located near sites that have already been selected for investigation, we believe that the sites require individual investigation to adequately evaluate the threat to water quality from past chemical use practices. In some cases adequate coverage may be provided by expanding the specific site investigations. However, in most cases separate site investigations will be necessary. Investigation of these sites should focus on potential discharge areas and any adjacent drainage channels. The following sites should be given highest priority:

- 1. Building 359 corrosion control facility, which housed 2 TCE degreasers.
- 2. Three engine test cells the SPCC plan documents oily discharges from two of these test cells, located in buildings 658 and 447, that eventually entered storm drains. The location of the third test cell is not indicated.

- 3. Six drum storage areas The SPCC plan depicts numerous drum storage areas on bare ground. The plan documents solvent storage in the following areas:
 - A. Northeast of building 392
 - B. Southeast of building 602
 - C. Between buildings 454 and 456
 - D. Northeast of building 320
 - E. Northeast of building 317
 - F. East of building 359
- 4. Hazardous and flammable materials storehouses 320 and 357.
- 5. Oil/water separators at Bee Canyon Wash and Agua Chinon Wash.

In addition, the SPCC plan identifies 23 wash areas including seven aircraft wash facilities. Each of these wash areas should be evaluated to determine whether solvents were used. If solvents were used at any wash area, that area should be included in the investigation.

Please submit a proposed sampling program for the sites discussed above in the form of an amendment to the Site Inspection Plan of Action. If you should have any questions, please call me or Steven Overman of our Pollutant Investigation Section.

Sincerely,

Rurt V. Berchtold Supervising Engineer

cc: OCWD - Jim Reilly

TDP/mcaset2

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MCAS EL TORO

ADDITIONAL SITES NEEDING INVESTIGATION

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	•		ADDITI	ONAL SITES REEDING INVESTIGATION
,	Test Ce	ells 6	558 and	
	Bldg.	626		Wash Rack UUPLICA
	Bldg.	392		Wash Rack and Drum Storage Area
	Bldg.	127		Wash Rack
	Bldg.	673	• 📜	Wash Rack and Drum Storage
	Bldg.	390		Wash Rack
	Bldg.	386	•	Steam Cleaning Area
	Bldg.	298		Maintenance Shop
	Bldg.	388		Wash Rack
	Hanger	605		Aircraft Wash Area
	Hanger	606	· • ·	Aircraft Wash Area
	Hanger	114		Aircraft Wash Area
	Hanger	463		Aircraft Wash Area
	Hanger	461		Aircraft Wash Area
	Hanger	297	•	Aircraft Wash Area and Drum Storage
	Bldg.	320		Trichloroethylene Drum Storage
	Bldg.	357	بره - ۱۰	Drum Storage
	Bldg.	454/	456 <u>5</u> .	Drum Storage
	Bldg.	317	7	Drum Storage
	Bldg.	534	•	Drum Storage
	Bldg.	655		Drum Storage
	Bldg.	359		Drum Storage
	Bldg.	130		Drum Storage
	Bldg.	602		Drum Storage

Drum Storage

Salvage Yard

ADDITIONAL SITES NEEDING INVESTIGATION, POTENTIAL AREAS OF CONTAMINATION

TOM D. PELTIEN?

AUTHOR:

DATE: 4/17/89 CATEGORY: 1.2

TITLE:

OTHER POTENTIAL AREAS OF CONTAMINATION

13 Mag.

Paint Sheds

Auto Hobby Shop

Leaking waste Oil Tank

Bldg. 103

Paint Shed

Heavy Equipment

Vehicle Wash Area

Empty or Destroyed Buildings 143, 343, and 1789

Combat Ready Vehicle Storage and Wash Area

Bldgs. 359 & 651 Wash Areas

Bldg. 262 Wash Rack

Exchange Car Wash

OIL & HAZARDOUS SUBSTANCE SPILL

PREVENTION, CONTROL & COUNTERMEASURE FIELD SURVEY REPORT & SPCC PLAN

TITLE:

SCS ENGINEERS

AUTHOR:

CATEGORY: 1.2 DATE:

11/01/79

MOUUDU.UUUUUM MCAS El Toro m60050.000 808

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EXTRACTS

Annotation by the writer of the Summary

Report:
This SPCC document does not identify
Building 172 as an area where hazardous
wastes were stored or generated. Report:



SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.

OIL AND HAZARDOUS SUBSTANCE
SPILL PREVENTION, CONTROL,
AND COUNTERMEASURE
FIELD SURVEY REPORT AND SPCC PLAN
FOR THE
MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

Prepared for

DEPARTMENT OF THE NAVY
WESTERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
SAN DIEGO, CALIFORNIA 92132

Prepared by

SCS ENGINEERS
4014 Long Beach Boulevard
Long Beach, California 90807
(213) 426-9544

CONTRACT NO. N62474-78-C-0776

NOVEMBER 1979

Table 2. Hazardous Wastes Generated at El Toro Marine Base Activities

<u>Activity</u>	Hazardous Wastes*	ROM Quantity
Auto vehicle maintenance shops	2, 3, 4	20,000 gal/yr
Aircraft maintenance hangers	2, 3, 4	15,000 gal/yr
Equipment and other maintenance areas	1, 2, 3, 4, 5, 10	2,000 gal/yr 100 batteries/yr
Painting and corrosion control	2, 5	3,000 gal/yr
Public Works (pest and weed control)	6	200 containers/yr
Aircraft defueling operations	9	200,000-2,000,000 gal/yr
Oil/water separator and sump maintenance	11	50,000 gal/yr
Station sick bay	7	Unknown
Miscellaneous aircraft-related activities	8	Unknown

*Hazardous Waste Categories:

- 1. Waste chlorinated hydrocarbons
- 2. Waste organic solvents
- 3. Waste lubricating oil
- 4. Waste hydraulic or cutting oil
- Paint wastes (such as slops, latex sludge, etc.)
- Containers unless triple-rinsed, which have contained pesticides, herbicides, poisons, and other hazardous materials
- 7. Infectious wastes
- 8. Radioactive wastes
- 9. Contaminated fuels
- 10. Corrosive wastes
- 11. Detergents, oils, and water mixtures from oil/water separator and sump pump-outs

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SPCC Key Map Juadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Reguired	Corrective Measures- Improvements (see notes)
Fueling Stat	ions	•					
	Tank Farm #2 Truck Fueling Stations (2)	Fuel oil #2	\$3	SW to storm sewer new "J" St.to Bee Canyon Wash	Yes	Yes	(3) (10) Repair shut-off valves and fittings on swing arms. Repair leaky fil- ters
N-7	Tank Farm #4 (SW) Truck Fueling Station	Fuel oil #2	\$3	SH over taxiway to storm sewer in runway N field - to Aqua Chinon Wash	Yes	Yes	(3) (10)
	Aircraft Dispensing Station	JP-4	S3	SW over taxing to storm sewer in runway in field to Aqua Chinon Wash	Yes -	Yes	(3) (10)
∞ ^{M-7}	Tank Farm #4 (NE) Truck Fueling Stations (2)	Fuel Oil #1, Diesel	\$3	SW overland indirect to Aqua Chinon Wash	Yes	Yes	(3) (10) Plug drains on truck pad
	Tank Farm #5 Truck Fueling Stations (3 operational) (1 abandoned)	JP-5	\$3	Directly to drains indirevia open ditch and storm sewer to Aqua Chinon Wash		Yes	(3) (10) Redirect drain pipes to oil-water separator.
N-10, 0-10	Tank Farm #6 Truck Fueling Station (2)	Contaminated JP-5, MoGas	\$3	SW over taxiway indirect via storm sewer to Aqua Chinon Wash	Yes	Yes	(3) (10)
	Tank Farm #555 Truck Loading Stands	JP-5, JP-4	\$3	SW to open ditch along Quarry Rd. Indirect to Borrego Canyon Wash	Yes	Yes	Construct curbing at either end of concrete trench
N-8	Aircraft Direct Fueling Station #574	JP-5	\$3	Directly to drain to ston sewer to Aqua Chinon Wash	n Yes	Yes	(4)
	Aircraft Direct Fueling Station #575	JP-5	\$3	Directly to drain to stor sewer to Aqua Chinon Wash	n Yes	Yes	(4)
0-9	Aircraft Direct Fueling Station #576	JP-5	\$3	Directly to drain to stor sewer to Aqua Chinon Wash	n Yes	Yes	(4)
	Aircraft Direct Fueling Station #577	JP-5	\$3	Directly to drain to stom sewer to Aqua Chinon Wash		Yes	(4)

SPCC Key Map Quadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)
<u> Aircraft</u>	Maintenance Hangers						
N-7	Aircraft Maintenance Hanger #605	JP-5, Lube oil	S2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
N-8	Aircraft Maintenance Hanger #606	JP-5, Lube oil	S2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
N-9	Aircraft Maintenance Hanger #114	JP-5, Lube oil	\$2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
N-9	Aircraft Maintenance Hanger #115	JP-5, Lube oil	S2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
Q-11 დ თ	Aircraft Maintenance Hanger #371	JP-5, Lube oil	\$2	Variable to interior grate trench drains to Aqua Chir non Wash	ed Minor 1-	Yes	(9)
Q-11	Aircraft Maintenance Hanger #463	JP-5, Lube oil	S2 .	Variable to exterior grate trench drains to Aqua Chir non Wash		Yes	(9)
R-11	Aircraft Maintenance Hanger #461	JP-5, Lube oil	\$2	Variable to exterior grate trench drains to Aqua Chin non Wash		Yes	(9)
R-11	Aircraft Maintenance Hanger #462	JP-5, Lube of1	\$2	Variable to exterior grate trench drains to Aqua Chin non Wash		Yes	(9)
S-8	Aircraft Maintenance Hanger #295	JP-5, Lube of	\$2	Variable to exterior grate trench drains to Aqua Chin non Wash	d Minor I-	Yes	(9)
T-8	Aircraft Maintenance Hanger #297	JP-5, Lube oil	S2	Variable to exterior grate trench drains to Bee Canyo Wash		Yes	(9)
T-9	Aircraft Maintenance Hanger #296	JP-5, Lube oil	\$2	Variable to exterior grate trench drains to Aqua Chin Wash		Yes	(9)

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SPCC Key Map Quadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)
Vehicle Mai	ntenance Area						
M-3	Auto Hobby Shop #625	Lube oil, Hydraul fluid, Misc. oils	ic SI	SW to open ditch via oil- water separator to Rifle Range Rd. Ditch	Minor	No	
M-9	Auto Organizational Shop #392	Lube oil, Hydraul fluid, Misc. oils		SW to storm sewer to Aqua Chinon Wash	Minor	No	
N-9	Vehicle Equipment Shop #127	Lube oil, Hydraul fluid, Misc. oils		SW to storm sewer to Aqua Chinon Wash	Minor	No	
0-2	Auto Exchange Repair Shop #651	Lube oil, Hydraul fluid, Misc. oils		SW indirect to Rifle Range Rd. Ditch	e Minor	No	
P-5 ∞	Auto Organizational Shop #5	Lube oil, Hydraul fluid, Misc. oils		SW indirect to Rifle Rang Rd. Ditch	e Minor	No	
O P-12	Ground Support Equipment Shop #673	Lube oil, Hydraul fluid, Misc. oils	ic S1	N to drainage swale indi- rect to Aqua Chinon Wash	Minor	No	
P-13	Auto Organizational Shop #390	Lube oil, Hydraul fluid, Misc. oils		SW indirect to Aqua Chino Wash	n Minor	No	
R-5	Auto Organizational Shop #10	Lube oil, Hydraul fluid, Misc. oils		SW indirect via oil-water separator to Rifle Range Rd. Ditch	Minor	No	
U-7 ·	Auto Organizational Shop #655	Lube oil, Hydraul fluid, Misc. oils	ic SI	Directly to floor drains Bee Canyon Wash	to Minor	Yes	Plug floor drains
U-7	Auto Vehicle Maintenance Shop #298	Lube oil, Hydraul fluid, Misc. oils	ic SI	SW to storm sewer to Bee- Canyon Wash	Minor	Но	· ·
U-8	Auto Organizational Shop #388	Lube oil, Hydraul fluid, Misc. oils		SW to indirect storm sewe	r Minor	No	
<u>Wash Areas</u>		riula, misc. oiis		to Bee Canyon Wash			
N-3	Exchange Car Wash	Oily rinses, Deter gents, Cleaning solvents	r- D	Directly to storm sewer v grease trap to Rifle Range Rd. Ditch	ia Yes . e	Yes	(4)
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SPCC Key Map Quadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)
M-3	Auto Hobby Shop # 626 Wash Rack	Oily rinses, Deter- gents, Cleaning sol- vents	D	To seepage pit - overflow indirect to Rifle Range Rd. Ditch	Yes	Yes	(1)
M-9	Auto Organizational Shop # 392 Wash Rack	Oily rinses, Deter- gents, Cleaning sol- vents	D	Directly to drain to Aqua Chinon Wash	Yes	Yes	(1)
N-9	Vehicle Equipment Shop # 127 Wash Rack	Oily rinses, Deter- gents, Cleaning sol- vents	D	Directly to storm sewer via grease trap to Aqua Chinon Wash	Yes	Yes	(1)
0-2	Auto Repair Shop #651 Steam Cleaning and Washing Area	Oily rinses, Grease	D	To sanitary sewer via oil- water separator	Minor	No	
P-5 & 7	Auto Organizational Shop #5 Wash Rack	Oily rinses, Deter- gents, Cleaning sol- vents	D	SW to storm sewer and indirect to Rifle Range Rd. Ditc		Yes	(1)
P-12	Ground Support Equipment Shop #673 Wash Rack	Oily rinses, Detergents, Cleaning solvents	D	Sanitary sewer via grease trap	Yes	Yes	(1)
P-13	Auto Organizational Shop #390 Wash Rack	Oily rinses, Detergents, Cleaning solvents	D	Directly to drain to Aqua Chinon Wash	Yes	Yes	(1)
R-5	Heavy Equipment Vehicle Wash Area	Oily rinses, Grease	D	SW to storm sewer via oil- water separator to Rifle Range Rd. Ditch	Minor	No	·
T-7	Construction Equipment Shop #386 Steam Cleaning Area	Oily rinses, Grease	D	Directly to drain to sani- tary sewer system	Yes	Yes	Discontinue operation. Use new auto truck wash area for building #1589
U-7	Public Works Compound Vehicle Washing Area	Oily rinses, Detergents	, D	Directly to storm sewer to Bee Canyon Wash	Yes	Yes	(4)
U-7	Public Works Compound Vehicle Washing Area (SE)	Oily rinses, Detergents	D	Directly to drain via grease trap to Bee Canyon Wash	Yes	Yes	Discontinue operation. Consolidate with other PW compound wash area
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Key	PCC / Map !rant	Activity Description		pill or Ischarge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)	•
	U-7	Auto Vehicle Maintenance Shop #298 Steam Cleaning Area	Oily rinses, Greases	D	Directly to storm sewer via grease trap to Bee Canyon Wash	Yes	Yes	Discontinue operation. Consolidate with pro- posed washing area at Building #1589	
	U-8	Storage Building #359 Wash Area	Oily rinses, Greases	D	Directly to storm drain to Bee Canyon Wash	Yes	Yes	(1)	
	บ- 8	Auto Organizational Shop #388 Wash Rack	Oily rinses, Greases, Cleaning Solvents	D.	SE to storm sewer to Bee Canyon Wash	Yes	Yes	(1)	
	บ-9	Combat Ready Vehicle Storage Wash Area	Oily rinses, Detergents, Cleaning solvents	D	Directly to drain to Aqua Chinon Wash	Yes	Yes	(4)	
	N-7	ACFT Wash Area Hanger #605	Oily rinses, Detergents	D	To storm sewer via grease trap to Aqua Chinon Wash	Yes	Yes	(1)	
& &	N-8	ACFT Hanger #606 Wash Area	Oily rinses, Detergents	D	Directly to storm sewer via grease trap to Aqua Chinon Wash	Yes	Yes	(1)	· •
	N-9	ACFT Hanger #114 Wash Area	Oily rinses, Detergents	D	Directly to storm sewer via grease trap to Aqua Chinon Wash	Yes	Yes	(1)	
	Q-11	ACFT Hanger #463 Wash Area	Oily rinses, Detergents	D	Directly to storm sewer via grease trap to Aqua Chinon Wash	Yes	Yes	(1)	•.
	R-11	ACFT Hanger #461 Wash Area	Oily rinses, Detergents	Ð	Directly to storm sewer t Aqua Chinon Wash	o Yes	Yes	(1)	
	5-9	ACFT Hanger #295 Wash Area	Oily rinses, Detergents	D	Directly to storm sewer via grease trap to Bee Canyon Wash	Yes	Yes	(1)	
	T-8	ACFT Hanger #297 Wash Area	Oily rinses, Detergents	D	Directly to storm sewer t Bee Canyon Wash	o Yes	Yes	(1) (4)	
	Hazardou	us and Flammable Storage							
	M-9	Corrosion Control Building #130 Paint Shed (5 gal and smaller containers or racks)	Organics Paints Glycolether	\$1	SW to storm sewer on 9th St. to Aqua Chinon Wash	No	No		
				1) }				
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SPCC Key Map Quadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)
M-9	Hazardous and Flammable Storage #143	Empty	N/A	SW to storm sewer	No	No	
0-4	Hazardous and Flammable Storage #1808 (1 gal and qt. containers/on racks)	Solvents Mops	\$1	SW overload - infiltratio	n No	No	
P-4	Hazardous and Flammable Storage #1507 (5-gal drums on racks)	Paints Adhesive	\$1	SW overload infiltration	No	Yes	Store all paints and adhesions within shed
P-4	Hazardous and Flammable Storage ∦1528 (5 gal and smaller containers on racks)	Paints	S1	W overland - infiltration	No No	No	
ω • P-10	Hazardous and Flammable Storage #343	Empty	N/A	Building to be destroyed	No	. No	
P-12	Hazardous and Flammable Storage #1789	Training Aids	N/A	Building to be destroyed	No	No ·	
R-4	Aero Club Facility Paint Shed (5 gal and smaller containers on racks)	Paints, Solvents	S1	SW overland - infiltratio	n No	No	
R-5	Paint Shed #103	Paints, Solvents	S1	SW overland - infiltratio	n No	No	
R-5	Battery Shed #1519	Batteries	\$1	SW overland - infiltratio	n No	No	
R-11	Hazardous and Flammable Storage	Guns, Ammunition	N/A		No	No	•

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SPCC Key Map Quadrant	Activity Description		Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Reguired	Corrective Measures- Improvements (see notes)
R-11	MAG 13 Paint Sheds (1-ga1 and 1-qt containers)	Paints, Solvents	\$1	S overland - infiltration	Minor	Yes	Relocate paint shed away from storm sewer
S-5	Hazardous Material Storage Locker (1 gal jugs on racks)	Unidentified liquid mattresses	\$1	SW overland - infiltration	ı No	No	· · · · · · · · · · · · · · · · · · ·
T-6	Public Works Pesticide Storehouse (30-, 10-, 5- & 1- gal drums on racks)	Organics, Insecticides	N/A	Contained	No	No	•
T-6	Hazardous and Flammable Storage #1596 (5-& 10-gal drums on racks)	Paints, Roofing Compound	SI	SW overland - infiltration	Minor	Yes	Drums stored outside building should be moved inside on pallets
T-7 9 0	Public Works Capaciter and Transformer Storage Area (15 oil-filled transformers on concrete pad)	Transformer oil	S2	SW to storm sewer to Bee Canyon Wash	Minor	Yes	Construct curbing around concrete pavement and provide drain outlet
U-6	Hazardous and Flammable Storage #534 (5-gal drums on pallets)	HCL	S1	SW overland - infiltration	Minor	Yes	Construct curbing around entrance way
U-6	Hazardous Storage #493 (5-and 10-gal drums on pallets and racks)	Herbicides	S1	W overland - infiltration	Minor	Yes	Construct curbing around entrance way
U-7	Hazardous and Flammable Store- house #320 (5-and 10-gal drums on racks)	Organics, Solvents Trichloroethylene	\$1	Various inside building	Minor	Yes	Construct curbing around loading entrance
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•••					•		

SPCC Key Map Quadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway		rovements equired	Corrective Measures- improvements (see notes)
U-9	Hazardous and Flammable Storehouse #325	Empty	\$1	SW overland - infiltration	No	No	
U-9	Hazardous and Flammable Storage #357 (55-gal drums)	Cleaning Compound Solvents	\$1	SW to storm sewer to Bee Canyon Wash	Minor	Yes	Construct curbing around loading dock
Miscellan	eous						
P-6	Crash Crew Burn Pit	Waste oils	\$3	W to storm sewer to Bee Canyon Wash	Yes	Yes	(8)
บ-5	Bee Canyon Oll-Water Separator	Misc. waste oils	\$2	Directly to Bee Canyon Wash	ı Yes	Yes	(2)
۷-10 پ	Aqua Chinon Oil-Water Separator	Misc. waste oils	\$2	Directly to Aqua Chinon Wash	Yes	Yes	(2)
-n-8	Fixed Aircraft Start System Building #643 (Compressor Bleedoff)	Waste oils, Greases	\$2	Directly to storm sewer via oil-water separator to Aqua Chinon Wash	Minor	Yes	(1)
N-10	Test Cell Building #658	JP-5	\$1	Directly to floor drain to Aqua Chinon Wash	Minor	Yes	(1)
Q-11	Test Cell Building #447	JP-5	\$1	Directly to floor drain to Aqua Chinon Wash	Minor	Yes	(1)
M-9 ·	Corrosion Control Hanger #130 Water Wall Paint Spray Booth	Paints	D	Directly to storm sewer to Aqua Chinon Wash	Minor (however, not presently in operation)	Yes	(1)
T-6	Public Works Shop #370 Water Wall Paint Spray Booth	Paints :	Đ	Directly to storm sewer to Bee Canyon Wash	Minor - if reactivated	None - unl reactivate	

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SPCC Key Map Quadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)
U-8	Corrosion Control Building #359 (Paint shop and 2 degreasing tanks)	Paints, Trichloroethylene	\$3	Various in building	Minor	No	
U-9 & U-10	Refueling Vehicle Maintenance Facility #672 - Vehicle Fuel Tank Cleaning Area	JP-5 JP-4 AV-Gas	D	Directly to storm sewer via oil-water separator to Aqual Chinon Wash	Yes	Yes	(1)
U-9, U-10	Refueling Vehicle Mainte- nance Facility #672 - Vehicle Storage Area	JP-5 JP-4 AV-Gas Misc. oil Greases	S3	W to storm sewer to Aqua Chinon Wash	Yes	Yes	(4)
Various Locations •	55-gal drum heating oil (1 drum mounted hori- zontally on rack)	Heating oil	\$2	Various - infiltration	Minor	No	
. 10 M-3	55-gal drums NE of Building #626 and Vehicle Maintenance Area Building #625	Lube oil Grease	\$2	SW to oil-water separator indirect to Rifle Rage Road Ditch	Minor	Service	Pump out oil-water separator regularly
M-9	55-gal drum storage NE of Building #392	Lube oil, Misc. oil Solvents Hydraulic fluid	S2	W and SW to storm sewer to Aqua Chinon Wash	Yes .	Yes	(5)(6)
M-9 -	55-gal drum storage SE of Building #602	Methyl chloroform	\$2	SW overland - infiltration	n Yes	Yes	(7)
M-9	(8) 55-gal drums W of Building #130	Cleaning compound, Misc. oils	S2	W to storm sewer to Aqua Chinon Wash	Yes	Yes	(7)
0-8 ·	(3) 55- gal drums SW of Building #1793	Misc. oils	S2	SW to storm sewer to Aqua Chinon Wash	Yes	Yes	(5)(6)
P-5 .	55- gal drum storage NE of Building #5	Lube oil, Hydraulic fluid, Misc. oils	. \$ 2	W overland indirect to Rifle Range Road Ditch	Yes	Yes	(5)(6)

CBCC							
SPCC Key Map Quadrant	Activity Description	Item Stored or Handled	Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)
P-5	Vehicle and generator Storage area SW and NE of Building #5	MoGas, Misc. oils. Grease	\$2	SW to storm sewer or indirect to Rifle Range Road Ditch	Minor	Yes	(9)
P-12	55-gal drum storage SW of Building #673	Lube oil, Cleaning compounds	\$2	S to low spot-infiltration	r Yes	Yes	(5)(6)
P-12	Vehicle storage area E of Building #673	Misc. oils, Greases	\$2	NE indirect via open ditch to Aqua Chinon Wash	ı Yes	Yes	(4)
P-12	55-gal drum storage at unloading Rack #388	Lube-oil, Hydraulic	s2 <u>.</u>	SW to storm sewer to Aqua Chinon Wash	Yes	Yes	(5)(6)
R-4	55-gal drum storage SW of Building #10	Lube oil, Hydraulic fluid, Freon	\$2	W and SW indirect to Rifle Range Road Ditch	e Yes	Yes	(5)(6)
φ R-5 ω	Vehicle storage area SW of Building #10	Lube oil, Grease	\$2	SW to oil-water separator to Rifle Range Road Dtich	Minor	Но	
R-11	55-, 10-and 5-gal drum storage between Buildings #454 and 456	Misc. oils, Paints, Solvents, Freon	\$2	E to storm sewer to Bee Canyon Wash	Yes	Yes	(5)(6)
R-11	(10) 55-gal drums NE of Building #461	Lube oil	\$2	SW to storm sewer to Aqua Chinon Wash	Yes	Yes	(7)
R-11	(6) 55-gal drums S of Building #1684	Lube oil	\$2	SW to storm sewer to Aqua Chinon Wash	Yes	Yes	(7)
S~4	(12) 55-gal drums and (12) 10-gal containers SW corner Tank Farm #2	Waste oil, Germicidal disin- fectants	S2	W to storm sewer to Bee Canyon Wash	Yes	Yes	(7)
S-4	(6) 55- gal drums SW of Building #29	Lube oil, Waste oil	\$2 ,	SW overland - infiltration	ı Yes	Yes	(7)
S-8	55- gal drum storage N of Hanger #295	Lube oil, Hydraulic fluid, Cleaning compound	\$2	Directly to storm sewer to Aqua Chinon Wash	Yes .	Yes	(5)(6)

						•		<i>.</i>
			i.					
SPCC Key Map Quadrant	Activity Description		pill or Hscharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)	÷.
T-7	55-gal drum storage area 500-gal Bowser NE of Building #386	Lube oil, Waste oil	\$2	W to storm drain to sani- tary sewer system	Yes .	Yes	(5)(6)(7)	
V-6	(5) 55-gal drums NW of Building #529	Lube oil, Hydraulic fluid	S2	SW overland - infiltration	ı Yes	Yes	(7)	
U-7	(10) 55-gal drums on Building #298 wash pad	Lube oil, Waște oil	\$2	Directly to storm drain to Bee Canyon Wash	Yes	Yes	(7)	
U-7	55-gal drum storage area NE of Building #317	Paints, Petroleum distillery, Cleaning solvents	\$2	SW to storm sewer to Bee Canyon Wash	Yes	Yes	(5)(6)	•
U-7	55-gal drum storage area NW of Building #320	Lube oil, Hydraulic fluid, Cleaning solvents	\$2	NE overland indirect via swale to Bee Canyon Wash	Yes	Yes	(7)	
9 4 U-7	55-gal drum storage S of Building #534	Lube oil, Cleaning compound, Hydraulic fluid	\$2	E and SW to storm sewer to Bee Canyon Wash	yes Yes	Yes	(7)	
U-7	Corrosion control rack at Building #655	Undercoating, Lube oil, Hydraulic fluid	S 2	Directly to storm drain to Bee Canyon Wash) Yes	Yes	(4)	
U-8	55-gal drum storage N and W of Building #655 Dempsey Dumpster	Lube oil, Waste oil, Hydraulic fluid	S2	SW to drainage swale to storm sewer to Bee Canyon Wash	Yes	Yes	(7)	•
U-8	55-gal drum storage NE of Building #655	Undercoating, Waste oil, Cleaning compoun	S2 nd	SW to storm sewer to Bee Canyon Wash	Yes	Yes	(5)(6)	
U-8	(12) 55-gal drums NE of Building #388	Lube oil, Hydraulic	\$2	S to storm sewer to Bee Canyon Wash	Yes	Yes	(7)	
υ-8	(5) 55-gal drums E of Building #359	Waste oil, Lube oil, Hydraulic fluid, Solvents	\$2	NW to storm sewer to Bee Canyon Wash	Yes	Yes	(7)	
				: •				

SPCC Key Map Quadrant	Activity Description		Spill or Discharge*	Path to Waterway	Potential Impact	Improvements Required	Corrective Measures- Improvements (see notes)
U-9	(11) 55-gal drums E of Building #631	Lube oil, Waste	52	SW overland indirect to Bee Canyon Wash	Yes	Yes	(7)
U-9	55-gal drum storage in Salvage Yard	Waste oils, Misc. oils, Hydraulic flui Lube oil	52 d.	W to drainage swale to Bee Canyon Wash	Yes	Yes	(5)(6)
U-9	55-gal drum storage SW Building #1749	Waste oils, Lube oil	S2	SW to storm sewer to Aqua Chinon Wash	Yes	Yes	(5)(6)
U-9	Leak in storm sewer line SE corner of Combat Ready Vehicle Storage Compound	Sewage containing oils and grease	D	SE overland to Aqua Chinon Wash	Yes	Yes	Repair leak in sewer line.

*S = Potential Spill Source (1 = 0-10 gal, 2 - 10-100 gal, 3 = 100-1000 gal, 4 = greater than 1000 gal).

©D = Active Source of Discharge

- Environmental Pollution Abatement Project P-325 should be implemented.
- Inspect and provide necessary maintenance to insure proper operation.
- 3. Construct impervious berm or curbing around facility and direct drainage to sump or oil-water separator with sufficient capacity to contain maximum spill.
- 4. Provide an oil water separator system to treat discharges prior to release into waterways.
- Provide centralized 55-gal drum storage with secondary containment at strategic points around the base. Issue memorandum to tenants on base requiring stricter drum inventories.
- 6. Provide shelter over facility to eliminate rain water infiltration.
- 7. Position storage containers and/or drums, within pens with secondary containment.
- 8. Construct permanent concrete crash crew pit with secondary containment and oil-water separator.
- 9. Discontinue spill washdown operations unless emergency situation exists contain and control spills with absorbent materials.
- 10. Provide adequate lighting at facility.

Final

Marine Corps Air Station El Toro Hazardous Material/Hazardous Waste Management Plan

August 1994

EXTRACTS

Annotations made by the writer of the Summary Report are identified with a Star symbol or an arrow.



Prepared for:

Southwest Division Naval Facilities Engineering Command 1220 Pacific Highway San Diego, CA 92132-5190

Prepared by:

Science Applications International Corporation Engineering Sciences Division 10260 Campus Point Drive San Diego, CA 92121

Contract No. N68711-92-D-4658 Delivery Order No. 0004

- hazardous materials storage.
- HAZARDOUS WASTE ACCUMULATION POINT
- ONE YEAR PERMITTED HAZARDOUS WASTE STORAGE AREA

MCAS El Toro Santa Ana, California

HAZARDOUS WASTE ACCUMULATION POINTS AND HAZARDOUS MATERIAL STORAGE LOCATIONS

NOVEMBER 5, 1993





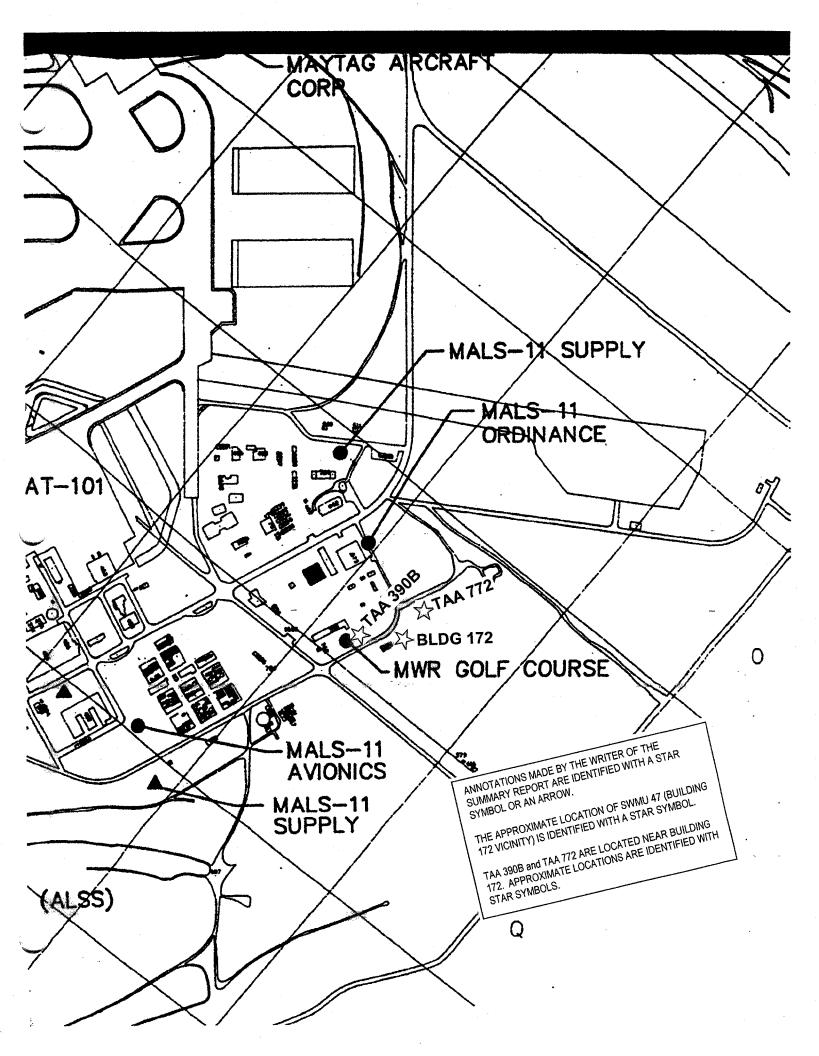
Hazardous Waste Accumulation Point Summary							
Unit	Bloig #	Coordinates					
		<u> </u>					
Aero Club	10	R5					
Armory	744	OS					
Auto Hobby Shop	626	N3					
CSSD-14	388	<u>U8</u>					
Erivironmental Above Ground Storage Tank	n/a	<u>U6</u>					
FMD Shops, Bidg 1601	370	76					
Fuels Division	314	U9					
H&HS 38	22	R4					
MACG-38 MWCS 38	HGR 5	RA					
MAG-46	51	Q4					
MAG-46 Fixed Wing	296	TØ					
MAG-46 Helo Mais-46	295	S8					
MALS-11 Air Frames	130	M9					
VALS-11 Avionics	856	Q12					
MALS-11 Cryogenics (ALSS)	636	R12					
WALS-11 GSE North	392	M9					
MALS-11 Ordinance	673	P12					
VALS-11 Power Plant	658	'N10					
VALS:11 Power Plant	634	N9					
VALS-11 Supply	441	P12					
Maytag Aircraft Corp	779	N10					
VOO.Tean :	115	NO					
Motor Pool (G-4), Bidg 770	386	17					
WHS-3	7	Q5					
AWR Auto 81	651	O2					
WR Golf Course	390	P13					
WSS-Utilities -							

MWSS-373 HQ
MWSS-373 Refluelers
SOMS HQ
SOMS Maintenance
SOMS Recovery
Supply
VMFA (AW)-121
VMFA (AW)-225

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

Building 390 is identified as a hazardous waste accumulation point, and TAA 390B is located near Building 172.

VMFA (AW) 225	172.	
VMFA (AW)-242		1944
VMFAT-101	371	Q10
VMFA-323	606	N8
VMGR-352	297	T8
VFMA-314	805	N7



EXTRACTS

STORM WATER POLLUTION PREVENTION PLAN

(SWPPP)

FOR

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA

CONTRACT NO. N68711-96-D-2059 DELIVERY ORDER NO. 0002

VOLUME 1

JULY, 1997

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

5. STORM WATER POLLUTION PREVENTION EVALUATION

Because of its mission as a part of the National Defense system, MCAS El Toro has numerous facilities and activities where there is potential for pollutants to contact storm water. These facilities include fueling operations, wash racks for aircraft, vehicles, and equipment, engine repair and maintenance, and support facilities that use or store significant quantities of materials containing potential pollutants.

Discharges from MCAS El Toro occur at various locations. Storm water run-off enters Agua Chinon Wash, Bee Canyon Wash, Rifle Range Road Ditch, San Diego Creek, and Upper Newport Bay. A Site Topographic Map shows the locations of discharges leaving the air station. To provide a clearer understanding of the hydrologic conditions at MCAS El Toro, each drainage basin has been modeled using the U.S. Environmental Protection Agency's Storm Water Management Model, as described in the Watershed Characterization Report (Volume 3). The physical characteristics of each drainage basin (e.g., percent impermeability, etc.). are also discussed in that report.

The facilities at MCAS El Toro were investigated from field visits in 1993 to determine whether they were of limited concern or were more likely to be a possible threat to water quality. Addressed in the following sections are those buildings of concern within each Drainage Basin. Each-building or activity observed during field observations is listed and discussed by drainage basin.

5.1 DRAINAGE BASIN 1

This drainage basin comprises most of the buildings in Areas 27 and 28. It has a map area of about 188 acres.

5.1.1 Buildings of Limited Concern

The buildings listed below in Table 5-1 do not use, handle, transport or store significant quantities of industrial materials nor do they generate significant amounts of liquid or solid industrial pollutants, and they do not appear to be of concern to the quality of storm water discharges:

5.9 DRAINAGE BASIN 9

This drainage basin has an area of about 103 acres. This is an agricultural area, and there were no industrial pollutants or activities observed which are tributary to the storm drains. For agricultural operations, MCAS should conduct a non-point source survey and monitoring program to assess potential contributions of pollutants in storm water run-off.

5.10 DRAINAGE BASIN 10

This drainage basin comprises most of the buildings in Areas 14 and 19. It has an area of about 138 acres. This area is mainly residential and agricultural.

5.10.1 Buildings of Limited Concern

The following buildings do not use, handle, transport, or store significant amounts of liquid or solid pollutants, and they do not appear to be of concern to the quality of storm water discharges:

** .	TABLE 5	
*	BASIN 10	· · · · · · · · · · · · · · · · · · ·
	BUILDINGS OF LIMIT	ED CONCERN
BLDG#	DESCRIPTION	TENANT
172	Inert Storehouse	Vacant
416	Storage Building	FAA
579	General Storage Shed	Installation
627	Transmitter Building	Station
772*	Hazardous Waste Collection Facility	Environment
835	Gate #3 Sentry House	PMO
841	Open Ammunition Storage Pad	Station Ordnance
843	Tactical Support Van Pad	MAG-11

^{*} Buildings with an asterisk indicate facilities which were not involved in any industrial activities or did not

5.10.2 Buildings of Concern

The following buildings or facilities use or otherwise deal with industrial materials and therefore are considered to be of concern as potential sources of pollution to the storm water system. In some cases, this potential is limited; however, best management practices are suggested in all instances where the potential was noted.

Building 389 - Loading/Unloading Ramp - Station

Industrial activities at this site include vehicle maintenance and storage. Potential pollutants in the area included aerosol paints, grease and oil and antifreeze. There was a parking area where maintenance on bomb holders takes place. Chemicals were stored in a covered outdoor storage area, which had a second

berm.

BMP recommendations are to install a spill kit, and develop and imtraining in spill response techniques.

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

Building 390 is located near Building

172.

Building 390 - Golf Cart Maintenance - MWR

Activities at this site include equipment repair and vehicle washing. Above ground fuel tanks are located within a bermed area. A wash rack is also present which drains to an oil/water separator (#390/762). The oil/water separator has recently been repaired. Outdoor storage of motorized landscaping equipment is also located at the site. Potential pollutants include unleaded gasoline, waste oil and vehicle wash waste. The floors are washed with soap and water. A spill cleanup kit and SPCCP are present and personnel have been trained in spill response techniques.

Recommended BMPs are to replace wet washing of interior floors with dry sweeping. The oil/water separator should then be routinely inspected and maintained in accordance with the manufacturer's specifications to ensure proper operation.

Building 673 - Aircraft Ground Support Equipment Shop - MALS-16

Industrial activities at this facility include vehicle maintenance. A concrete bermed wash rack with a canopy is

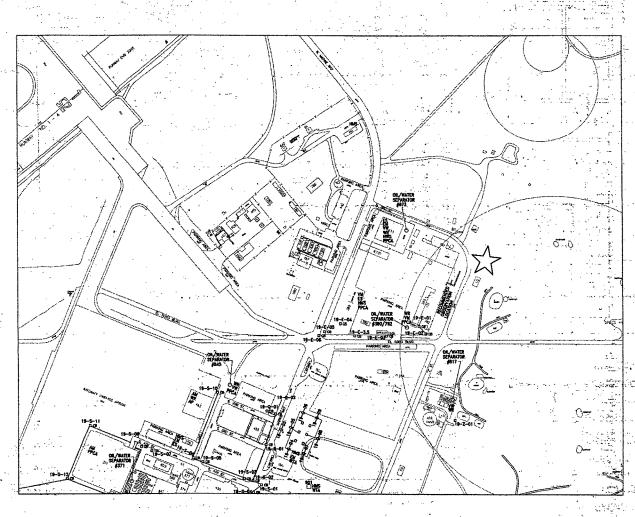
TABLE 5-12

BASIN 10

SUMMARY OF BMPs

	4			SUN			
BLDG#	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	BMP STATUS	BMP #	BMP Description
172	10	Inert Storehouse	Vacant	Limited			No Additional BMPs Recommended
389	10	Loading/Unloading	Station	Concern	Rec	009	Personnel Training
·		Ramp	. " "		Rec	112	Prepare Appropriate Spill Prevention and Response Plans
					Rec	065	Place Spill Kit in Area
390	10	Golf Cart Shop	MWR	Concern	Rec	012	Construct Berm or Dike Around Critical Areas
•			•	4	Rec	110	Regularly Inspect and Maintain Storm Water Conveyance Systems
					Rec	004	Avoid Hosing Down the Site
		rude a creation		*	Rec	005	Provide Regular Sweeping of Floor/Lot
416	10	Storage Building	FAA	Limited			No Additional BMPs Recommended
579	10	General Storage Shed	Installation	Limited			No Additional BMPs Recommended
627	10	Transmitter Building	Station	Limited			No Additional BMPs Recommended
673	10	Ground Support	MALS-16	Concern	Rec	009	Educate Personnel
		Equipment Shop	,		Existing	112	Spill Prevention, Control, Countermeasures Plan
		* * * * * * * * * * * * * * * * * * *			Existing	012	Construct Berm or Dike Around Critical Areas
					Existing	001	Label all Drums, Cans, Containers, Tanks, and Valves
i Vita					Existing	065	Place Spill Kit in Area
762	10	Vehicle Washrack	MWSG-37	MWSG-37 Concern		0012	Construct Berm or Dike Around Critical Areas
a de desa		Utility Building			Existing	110	Regularly Inspect and Maintain Storm Water Conveyance Systems

					TABLE 5- BASIN 10	. 4 .	
		S. C.	*	SUN	imary of	BMPs	
BLDC #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	BMP STATUŠ	BMP P	BMP Description
- China Managara	*		ą.		Rec	004	Avoid Hosing Down the Site
		**	*		Rec	005	Provide Regular Sweeping of Floor/Lot
772	10	Hazardous Waste Collection Facility	Environment	Previous	•		No Additional BMPs Recommended
835	10	Gate #3 Sentry House	PMO	Limited			No Additional BMPs Recommended
841	10	Open Ammunition Storage Pad	Station Ordnance	Limited			No Additional BMPs Recommended
843	10	Tactical Support Van Pad	MAG-11	Limited			No Additional BMPs Recommended



'MCAS' EL TORO - AREA 19

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

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MCASTL TORO SPIL HISTORY

Date	Incident No.	Description
November 28, 1995	N/A	Approximately 2 quarts of hydraulic fluid were lost on the roadway and shoulder when a forklift's hydraulic line was inadvertently punctured. A drip pan was placed under the leaking line to contain the leak and contaminated soil was removed and drummed as hazardous waste.
September 18, 1995	N/A	A one gallon container of liquid scale dissolver spilled when it was dropped by warehouse personnel. The spill was diked and absorbed with ash. Spill contained to the warehouse floor.
September 12, 1995	N/A	Three quarts of hydraulic fluid spilled onto the concrete warehouse floor when a forklift's fork punctured the stored material during issuance. Spilled cleaned up with speedy dry absorbent. Spill contained to the warehouse floor.
July 21, 1995	N/A 	Approximately 80 gallons of JP-5 fuel spilled when a fuel truck attempted to fuel an aircraft with an open fuel cell. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
 July 20, 1995	N/A -	Approximately 10 gallons of JP-5 fuel spilled when an aircraft vented it's tanks. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
June 29, 1995	N/A	Approximately 70 gallons of JP-5 fuel spilled from an aircraft fuel tank with a dysfunctional valve. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
November 1, 1994	N/A	Approximately 400 gallons of JP-5 fuel leaked from an F/A-18 aircraft. Three hundred gallons were recovered and 100 gallons were cleaned up with speedy dry absorbent. Spill contained to the flightline.
November 1, 1994	N/A	Approximately 250 gallons of JP-5 fuel leaked from an F/A-18 aircraft.
		Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.

TABLE 5-39 MCASTLTORO

Date	Incident No.	Description
September 1, 1994	N/A	Approximately 1 gallon of hydrochloric acid and another gallon of chlorine spilled when their lines ruptured. Pumping through the line was stopped immediately and the spill was cleaned up with sodium bicarbonate. Spill contained to the flightline.
August 12, 1994	N/A	A small amount of paint stripper (methylene chloride) from a 5 gallon can spilled when the can overheated and blew its cap. The small amount evaporated before cleanup could occur.
July 14, 1994	249777	Approximately 25 gallons of transformer oil, possibly containing more than 55 ppm PCBs, spilled when the personnel handling the transformer overturned it. The initial responders laid down absorbent socks, mats pads and Lite-Dri absorbent around the spill and on the liquid. Workers then removed and drummed soil from the spill area as hazardous waste. Cleanup began immediately on 14 July 94 and was completed 15 July 94. Additional hazardous waste included the absorbent materials, personal protective gear rags and mops used to cleanup the spill.
April 26, 1994	N/A	Approximately 100 gallons of IP-5 fuel spilled when an aircraft vented its tanks. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
March 8, 1994	N/A	Approximately 20 gallons of JP-5 fuel spilled when an aircraft was refueling. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
May 11, 1993	318	Caustic soap leaked from a container behind Bldg. 317.
March 1, 1993	146	Approximately one quart of methyl ethyl ketone spilled to the ground at Bidg. 306.
September 9, 1992	873	Unknown quantity of fumigant released into the soil at Strawberry Field.
August 16, 1992	788	Fire occurred at Bldg. 751 with a van containing Hg, Li, Cd, and Pb-acid batteries. This caused a chemical release into the atmosphere.

	TABLE	5-39
	MCAS EL SPILL HIS	
Date	Incident No.	Description
June 1, 1992	560	Approximately 3,950 gallons of JP-5 spilled from a refueler. Fuel was contained and did not enter storm drains.
May 28, 1992	552	JP-5 smell coming from storm drain at Bldg. 368. Flow from drain diverted to oil/water separators.
March 5, 1992	228	Three quarts of Hg spilled at Bldg. 297. The spill was contained.
March 5, 1992	223	Tractor trailer spilled 15-20 gallons of diesel fuel into sanitary sewer. Sewer system was diked and covered.
February 5, 1992	121	One gallon of transformer oil containing PCBs spilled at Bldg. 439. The spill was contained.
January 17, 1992	053	Approximately 100 gallons of antifreeze spilled into ditch and then to Agua Chinon.
December 18, 1991	1092	Lithium battery exploded at Bldg. 17. The debris was contained with some off-gassing.
November 19, 1991	997	Approximately 10 Lithium Batteries leaking and off-gassing at Bldg. 673T3.
September 16, 1991	754	Contaminated oil spilled into sewer at Bidg 295.
July 12, 1991	580	Paint stripper spilled into ditch near Bldg. 800. The spill was diverted to oil/water separator.
May 23, 1991	453	Unknown white substance found at Officer's Club crystal room.

A reference to a major spill is contained in the May 1990 SPCCP written for the MCAS. The SPCC states that "one major unauthorized release has occurred in the last two years. In August 1988, a 108,000 gallon JP-5 storage tank pipe was reported to have leaked causing soil and ground water contamination. The leak was reportedly repaired in early 1990."

Extracts from MCAS El Toro Property Records, Building Guides, Business Plan, and Facility Maps

5146	71141 PUBLIC QUARTERS /OFFICER/	NOY13828	19470801	SF I	1,367	39	28	11[\$10,687	\$92,101	1947	
5147	71141 PUBLIC QUARTERS /JR. OFFRS/	NOY13828	19460801		1,367	39	28	11	\$10,636	\$91,661	1947	
5148	71141 PUBLIC QUARTERS /JR. OFFRS/	NOY13828	19470801		1,367	39	28	11	\$10,616	\$91,489	1947	
5149	71141 PUBLIC QUARTERS	NOY13828	19470801		1,367	39	28	11	\$10,440	\$89,972	1947	
5150	71141 PUBLIC QUARTERS, /JR. OFFRS/	NOY13828	19470801		1,367	39	28	11	\$10,528	\$90,730	1947	
5151	71141 PUBLIC QUARTERS	NOY13828	19470801		1,367	39	28	11	\$10,440	\$89,972	1947	
5152	71141 PUBLIC QUARTERS /OFFICER/	NOY13828	19470801		1,367	39	28	11	\$10,434	\$89,920	1947	
420	69010 STATION FLAGPOLE/B 65	NOY5421	19430301		0	0	0	48	\$200	\$2,769	1943	
	82222		19460115		0	0	0	0	\$494,545	\$5,121,508	1946	
152	21920 PW GARDENING EQ	NOY5421	19430115	SF	112	13	8	8	\$2,000	\$27,686	1943	
155	21920 GRNDS EQUIP SHED	NOY5421	19430115		260	15	16	10	\$2,000	\$27,686	1943	
163	42132 VACANT	NOY5421	19430801		1,250	50	25	13	\$17,207	\$178,438	1943	1990
164	42132 VACANT	NOY5421	19430801		1,250	50	25	13	\$12,480	\$172,761	1943	- 1000
165	44130 HA+/FLAM STOREHOUSE	NOY5421	19430601		1.250	50	25	13	\$12,480	\$172,761	1943	
166	42132 VACANT		19430801		1,250	50	25	13	\$12,480	\$172,761	1943	
167	42132 VACANT		19430801		1,250	50	25	13	\$12,480	\$172,761	1943	
169	44112 NBC	NOY5421	19430301		140	14	10	10	\$4,480	\$62,017	1943	
170	42132 INERT STOREHOUSE	NOY5421	19430301		1,250	50	25	11	\$8,388	\$116,115	1943	
171	42132 VACANT	NOY5421	19430801		140	14	10	10	\$4,480	\$62,017	1943	
172	42132 VACANT	NOY5421	19430801		1,250	50	25	11	\$8,320	\$115,174	1943	
5106	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,763	\$109,992	1947	
5107	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,783	\$110,164	1947	
5108	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,788	\$110,207	1947	
5109	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,880	\$111,000	1947	
5110	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,674	\$109,225	1947	
5111	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,674	\$109,225	1947	
5112	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,929	\$111,422	1947	
5113	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$13,402	\$115,498	1947	
5114	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$12,993	\$111,974	1947	
5115	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$12,947	\$111,577	1947	
5116	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$12,947	\$111,577	1947	
5117	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$12,952	\$111,620	1947	
5118	71141 PUBLIC QUARTERS /JR. OFFRS/	NOY13828	19470801	SF	1,367	39	28	11	\$10,528	\$90,730	1947	
5119	71141 PUBLIC QUARTERS /OFFICER/	NOY13828	19470801		1,367	39	28	11	\$10,542	\$90,851	1947	
5120	71141 PUBLIC QUARTERS /JR. OFFRS/	NOY13828	19470801	SF	1,367	39	28	11	\$10,528	\$90,730	1947	
5121	71141 PUBLIC QUARTERS /JR. OFFRS/	NOY13828	19470801	SF	1,367	39	28	11	\$10,637	\$91,670	1947	
5122	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801		1,479	43	28	11	\$13,304	\$114,654	1947	
5123	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$12,967	\$111,750	1947	$\overline{}$
5124	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$12,947	\$111,577	1947	
5125	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$12,946	\$111,569	1947	
5126	71141 MARRIED OFFICERS QUARTERS	NOY13828	19470801	SF	1,479	43	28	11	\$12,944	\$111,551	1947	
256	17120 TRNG BLDG/PHYSICO SURV/	NOY8759	19450401		13,056	172	130	14	\$77,740	\$548.655	1945	1984
263	74088 EDUCATION BUILDING	NOY8759 :	19450201	SF	12,404	156	116	13	\$110,025	\$1,153,463	1945	1990
264	74037 SELF-HELP WOOD SHOP	NOY8759	19450201	SF	12,404	156	118	13	\$82,785	\$910,065	1945	1983
271	17125 AUDITORIUM	NOY8759	19440101	SF	26,733	201	133	64	\$224,738	\$2,266,399	1944	1990
5001	71140 MARRIED ENLISTED MENS QTRS	NOY13828	19470801	SF	1,508	58	26	11	\$13,470	\$110,387	1947	1981
5002	71140 MARRIED ENLISTED MENS QTRS	NOY13828	19470801		1,508	58	26	11	\$13,470	\$110,387	1947	1981
5003	71140 PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801		1,508	58	26	11	\$13,664	\$112,059	1947	1981
5004	71140 PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5005	71140 PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5006	71140 PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5007	71140 PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5008	71140 PUBLIC QUARTERS/ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,727	\$112,602	1947	1981

EXTRACT FROM PLANT ACCOUNT RECORD

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CLASS 2 PROPERTY RECORD
 BLDG
(004) UIC..M60050
                                        (001) PR N0.....2-00311
          MCAS EL TORO SANTA ANA CA
                                           (005) FACILITY NO..172
                                            (106) SPEC AREA....
      LOCATION
                                       GENERAL INFORMATION
(101) COUNTRY..US UNITED STATES
                                             (007) ACTION.....CORRECTION
(102) STATE....06 CALIFORNIA
                                            (008) FAM HOUSING....NO
(103) COUNTY...059 ORANGE
                                            +(009) EE DATE......09 MAY 90
(104) CITY....0000
                                            +(011) PR REVIEW DATE.02 APR 91
                                            +(010) FACILITY NAME ..
(107) MAP GRID.P13
                                                   VACANT
     ACQUISITION
                                                 MEASUREMENTS
(201) ESTATE......11 MCON (301) LENGTH.... 50 FT (202) ACQ CONTRACT...NOY 5421 (302) WIDTH.... 25 FT (203) ACQ DATE.....01 AUG 43 (303) HEIGHT.... 11 FT (204) GOVT COST..... $8,320 (304)/(308) AREA/UM... 1,250 SF (207) LAND CCN.....91140 (305) STORIES... 01
                                             (307) IRREGULAR.
                                                                   NO
                         CONSTRUCTION
(401) YEAR BUILT......1943 (404) ABMP CODE.....
(402) CONSTRUCTION TYPE. PERMANENT (409) PROJECT ID....
(403) YEAR IMPROVED.....
                                         (410) HISTORIC IND...
                          MAINTENANCE
(701) MAINT UIC..M60050 + (702) PRIME USE....42132 (703) MFC...4 USMC
               +STATUS/UTILIZATION
(502) CATEGORY CODE...42132 (501) USE..VACANT
(510) USER UIC......M60050.....MCAS EL TORO SANTA ANA CA
           AREA/SF* OTHER/
                                               ALT/CF
                                                                 DEF CODES
                      (516) (517)
                                                           (524)
ADEQ (515)
SBST (518)
                      (519)
                                       (520)
                                                            (525)
                                         (523)....13,140.00 (526)F30 D36
INAD (521) .....1,250.00 (522)
                                         13,140.00
  TOTAL 1,250.00
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Base Realignment and Closure Business Plan

EXTRACTS



For Marine Corps Air Station El Toro, CA

March 2001

Table 2 Site Summary

(Sheet 37 of 43)

Database Tracking	Reuse Parcel	Description	Material Disposed	Date of Operation	Status	Regulatory Mechanism	NFA	NFA Date	Comments	ECP Area Type	Approx. ECP Area (acres)
RFA 32	9B	Drum storage area			Not Located During RFA		Х			1	0.18
RFA 35	11A	< 90-day accumulation area			Not Located During RFA		х			1	0.18
RFA 40	12B	Drum storage area			Not Located During RFA		Х			. 1	0.18
RFA 41	12B	Vehicle wash rack					х			3	0.18
RFA 43	12B	Drum storage area			Not Located During RFA		х			1	0.18
RFA 44	12B	Drum storage area			Not Located During RFA		х			1:	0.18
RFA 46	13E	Vehicle Maintenance and Parking / DRMO			Closed		х	8/10/99		4	0.18
RFA 47	3A	< 90-day accumulation area	····		Not Located During RFA		Х			l	0.18
RFA 50	.9B	Drum storage area			Not Located During RFA		x			1	0.18
RFA 55	9B	Drum storage area	l .		Not Located During RFA		Х			1	0.18
RFA 56	9B .	Drum storage area	N. Committee of the Com		Not Located During RFA		х			1	0.18
RFA 69	9B	Drum storage area			Not Located During RFA		х			1	0.18
RFA 71	11A	< 90-day accumulation area			NFA	DTSC	х	1/27/00		4	0.18
RFA 72	8	< 90-day accumulation area			FA					6	0.18
RFA 74	11A	Aircraft wash area					х			1	0.18
RFA 78	11A	Drum storage area			Not Located During RFA		х			11	0.18
RFA 79	11A .	Drum storage area			Not Located During RFA		Χ :		·	1	0.18
RFA 80	11A	Drum storage area	· · · · · · · · · · · · · · · · · · ·	1	Not Located During RFA		х		·	1	0.18
RFA 81	11A	Drum storage area			Not Located During RFA		х			11	0.18
RFA 82	11A	Drum storage area			Not Located During RFA		х				0.18
RFA 88	11A	PCB storage area			: FA					5	0.18
RFA 89	11A	Drum storage area			Not Located During RFA		Х			1	0.18
RFA 94	10A	< 90-day accumulation area			NFA	DTSC	х	10/7/99		3	0.18
RFA 95	11A	Engine test cell			· 1		х			3	0.18
RFA 96	12H	Drum storage area			Not Located During RFA		' X			1	0.18
RFA 98	13F	Vehicle wash rack					х			I	0.18
RFA 100	13F	TCE degreaser	·				х			3	0.18
RFA 103	13F	Drum storage area			Not Located During RFA		х			· I	0.18

EXTRACT FROM 1989 BUILDING GUIDE

Page No. 07/06/89

3

MCAS EL TORO BUILDING

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

Building 172 is identified as an inert storehouse in the 1989 Building Guide.

115 N9	BLDG NO.	MAP GRID	DESCRIPTION	TENANT	NUMB	ACCOUNT	SE
115 NO				*******			_
115 NO							
115 NO							
118							
118							
119							*
119							
120 M8							¥
120							
121 N8							×
121 N8					21107	7100	
122 N9	121	N8	Fire Station #3	Security	73010	71J0	
122 N9	121	N8	Maint Hangar Ol Space	VMFA-323	21106	7100	*
122 N9	122	N9		VMFA-531	21106	7100	*
123 N9							
123 N9							*
124 N9				,			
124 N9			-				*
125 N9							-
126 N9							
127 N9							
129							
130 M9							
131 M9							
132							
133 M9							
134							
M8							
135							*
135 M8			Hangar Maint Admin	VMFA-531			
M8			Table 1				*
137 M8 Warehouse	135	M8		Food Serv	72210	7180	
138 M7 Electronics Maint Div G-6 21710 7120 139 M7 Storage out of Stores MAG-11 44112 7140 141 G15 EOD Magazine 42122 71NO 142 N9 Hazardous/Flam Storage H&MS-11 44130 7140 146 P3 Standby Generator Bldg FMD 81159 7610 147 N4 Post Office Boxes Bldg FSSG 84209 7730 152 Q3 Grnds Equip Shed FMD 21920 7120 155 T6 Grnds Equip Shed FMD 21920 7120 156 T6 Storage Tank/Potable Water FMD 84140 76F0 163 Q12 Inert Storehouse Sta Ordn 42132 71NO 165 R12 Hazardous/Flam Storage H&MS-11 44130 7140 166 R11 Inert Storehouse Sta Ordn/H13 42132 71NO 167 S11 Inert Storehouse Sta Ordn/H13 42132 71NO 169 R12 Hazardous/Flam Storehouse Sta Ordn/H13 42132 71NO 170 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/	136	M8	Group NBCD	MCP	44112	7140	
139 M7	137	M8	Warehouse	MAG-11	44110	7140	
141 G15 EOD Magazine 42122 71NO 142 N9 Hazardous/Flam Storage H&MS-11 44130 7140 146 P3 Standby Generator Bldg FMD 81159 7610 147 N4 Post Office Boxes Bldg FSSG 84209 7730 152 Q3 Grnds Equip Shed FMD 21920 7120 155 T6 Grnds Equip Shed FMD 21920 7120 156 T6 Storage Tank/Potable Water FMD 84140 76F0 163 Q12 Inert Storehouse Sta Ordn 42132 71NO 164 Q12 Inert Storehouse Sta Ordn 42132 71NO 165 R12 Hazardous/Flam Storage H&MS-11 44130 7140 166 R11 Inert Storehouse Sta Ordn/H13 42132 71NO 169 R12 Hazardous/Flam Storehouse H&MS-11 42132 71NO 170 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO	138	M7	Electronics Maint Div	G-6	21710	7120	
141 G15 EOD Magazine 42122 71NO 142 N9 Hazardous/Flam Storage H&MS-11 44130 7140 146 P3 Standby Generator Bldg FMD 81159 7610 147 N4 Post Office Boxes Bldg FSSG 84209 7730 152 Q3 Grnds Equip Shed FMD 21920 7120 155 T6 Grnds Equip Shed FMD 21920 7120 156 T6 Storage Tank/Potable Water FMD 84140 76F0 163 Q12 Inert Storehouse Sta Ordn 42132 71NO 164 Q12 Inert Storehouse Sta Ordn 42132 71NO 165 R12 Hazardous/Flam Storage H&MS-11 44130 7140 166 R11 Inert Storehouse Sta Ordn/H13 42132 71NO 169 R12 Hazardous/Flam Storehouse H&MS-11 42132 71NO 170 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO	139	M7	Storage out of Stores	MAG-11	44112	7140	
142 N9 Hazardous/Flam Storage H&MS-11 44130 7140 146 P3 Standby Generator Bldg FMD 81159 7610 147 N4 Post Office Boxes Bldg FSSG 84209 7730 152 Q3 Grnds Equip Shed FMD 21920 7120 155 T6 Grnds Equip Shed FMD 21920 7120 156 T6 Storage Tank/Potable Water FMD 84140 76F0 163 Q12 Inert Storehouse Sta Ordn 42132 71NO 164 Q12 Inert Storehouse Sta Ordn 42132 71NO 165 R12 Hazardous/Flam Storage H&MS-11 44130 7140 166 R11 Inert Storehouse Sta Ordn/H13 42132 71NO 169 R12 Hazardous/Flam Storehouse Sta Ordn 42132 71NO 170 Q13 Inert Storehouse Sta Ordn 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO		G15			42122	71NO	
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147 N4 Post Office Boxes Bldg FSSG 84209 7730 152 Q3 Grnds Equip Shed FMD 21920 7120 155 T6 Grnds Equip Shed FMD 21920 7120 156 T6 Storage Tank/Potable Water FMD 84140 76F0 163 Q12 Inert Storehouse Sta Ordn 42132 71NO 164 Q12 Inert Storehouse Sta Ordn 42132 71NO 165 R12 Hazardous/Flam Storage H&MS-11 44130 7140 166 R11 Inert Storehouse Sta Ordn/H13 42132 71NO 169 R12 Hazardous/Flam Storehouse H&MS-11 42132 71NO 170 Q13 Inert Storehouse Sta Ordn 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 40132 71NO			_		81159	7610	
152 Q3 Grnds Equip Shed FMD 21920 7120 155 T6 Grnds Equip Shed FMD 21920 7120 156 T6 Storage Tank/Potable Water FMD 84140 76F0 163 Q12 Inert Storehouse Sta Ordn 42132 71NO 164 Q12 Inert Storehouse Sta Ordn 42132 71NO 165 R12 Hazardous/Flam Storage H&MS-11 44130 7140 166 R11 Inert Storehouse Sta Ordn/H13 42132 71NO 169 R12 Hazardous/Flam Storehouse H&MS-11 42132 71NO 170 Q13 Inert Storehouse Sta Ordn 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 40132 71NO			the contract of the contract o				
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165 R12 Hazardous/Flam Storage H&MS-11 44130 7140 166 R11 Inert Storehouse Sta Ordn/H13 42132 71N0 167 S11 Inert Storehouse Sta Ordn/H13 42132 71N0 169 R12 Hazardous/Flam Storehouse H&MS-11 42132 71N0 170 Q13 Inert Storehouse Sta Ordn 42132 71N0 171 Q13 Inert Storehouse Sta Ordn/M46 42132 71N0							
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169 R12 Hazardous/Flam Storehouse H&MS-11 42132 71NO 170 Q13 Inert Storehouse Sta Ordn/M46 42132 71NO 171 Q13 Inert Storehouse Sta Ordn/M46 40132 71NO					i i		
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171 Q13 Inert Storehouse Sta Ordn/M46 40132 71NO							
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	₹ 172	£1.5	inert Storenouse	H&MS=11	42132	INO	

EXTRACT FROM 1994 BUILDING GUIDE

⊇ No. 14/94

MCAS EL TORO BUILDING GUIDE

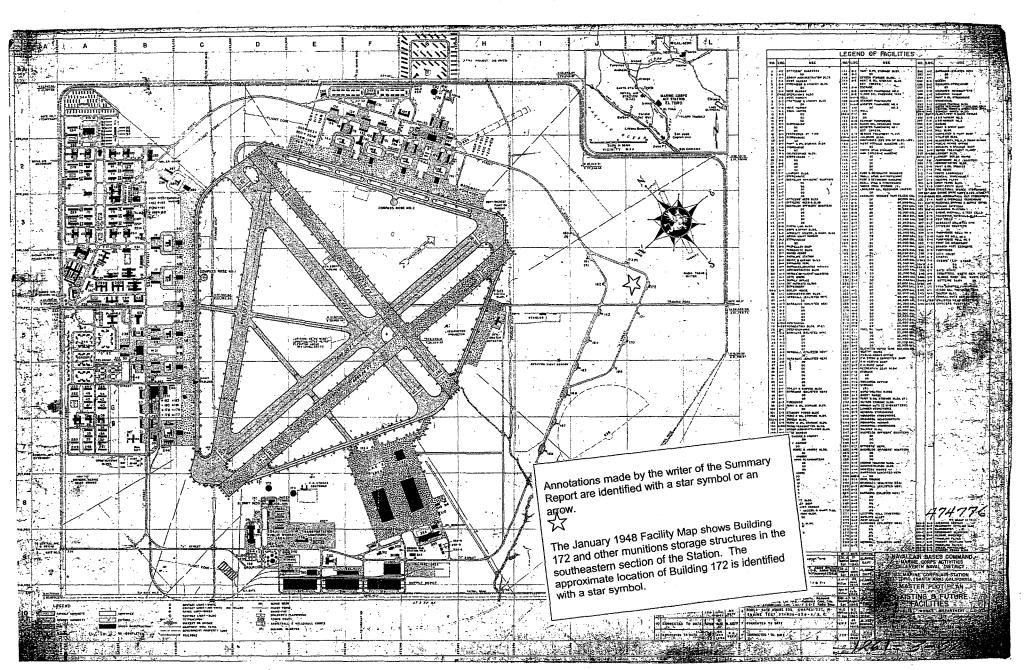
FAC NO.	MAF GRII	D DESCRIPTION	TENANT	CAT CODE NUMB		-
				•		
123	N9	Maint Hangar O1 Space	VMFA-232	21106	EBVO	1190 SF
123	N9	Maint Hangar 02 Space	VMFA-232	21107		
124	N9	Maint Hangar 01 Space	VMFA (AW) 225	21106	EBVO	5840 SF
124	N9	Snack Bar #14	Sta/G-4	74005	EBLO	400 SF
125	N9.	Maint Hangar Of Space	VMFA (AW) 225.	21106	EBVO	4224 SF
126	N9	Maint Hangar 02 Space	VMFA (AW) 225	21109	EBVO	4224 SF
127	N9	Tire Storage Paint	MALS-11	44112	ĒBDO	4026 SF
129	M9	Aviation Armament	MALS-11	21154	EBVO	3900 SF
130	M9	Aviation Faint Area	MALS-11	21106	EBVO	
131	M9	Storage	MALS-11	44112		
132	M9	Aviation Armament Shop	MALS-11	21154		
133	M9	Housing	Installation			
134	M8	Hangar Maint Admin	VMFA-323	21107		6240 SF
135	M8	EM Mess Open	Vacant/G-4	72210		6240 SF
₹6	M8	NBC Storage	MAG-11	44112		6240 SF
- 7	M8	Storage	MAG-11	44112		3120 SF
± 37	MB	Academic Instruction	MATCS-38 (DETB)			3120 SF
138	МZ	Electronics Maint Div	Sta/G-6	21710		6240 SF
139	M7	3rd MAW Embark	3rd MAW	44112		6240 SF
4142	N9	Hazardous/Flam Storage	MALS-11	44130		640 SF
146	P3	Standby Generator Bldg	Installation	81159		360 SF
147	N4	Post Office Boxes Bldg	CSSD-14	73085		829 SF
152	୍ଷୟ	Grnds Equip Shed	Installation -	21920		112 SF
155	T6	Grnds Equip Shed	Installation	21920		260 SF
156	T6	Storage Tank/Potable Water	Installation	84140		10000 BA
163	012	Inert Storehouse	Vacant	42132		1250 SF
164	012	Inert Storehouse		42132		1250 SF
165	R12	Haz/Flam Storage (AVN Sup)	MALS-11	44130		1250 SF
166	R11	Inert Storehouse	Vacant	42132		1250 SF
167	S11	Inert Storehouse	Vaçant	42132		1250 SF
169	R12	NBC Storage	MALS-11	44112		140 SF
170	013	Inert Storehouse	Vacant	42132 42132		1250 SF 140 SF
171	013	Inert Storehouse	Vacant	42132		140 SF 1250 SF
→ 172	P13	Inert Storehouse	Vacant Installation	84140		
174	T7	Storage Tank/Potable Water	Installation			1000000BA
175	T6	Storage Tank/Potable Water	Inactive (DLA)			25000 GA
176	F:4	JP-5 Tank	Inactive (DLA)			50000 GA
177	R4	JP-5 Tank	Inactive (DLA)			46577 GA
178	R4	JP-5 Tank	Inactive (DLA)			24424 GA
179	R4	JP-5 Tank	Inactive (DLA)			24490 GA
0	R4	Heating Dil	Inactive (DLA)			43368 GA
1,70	R4 .	Heating Oil	Inactive (DLA)			46388 GA
182	R4	Heating Oil	Inactive (DLA)			24495 GA
183	R4	Heating Oil		41182 E		50000 GA
189	D4	Waste Oil Storage Waste Oil Storage	InactiveSupply			25000 GA
191 196	0,4 N7	Diesel Fuel Storage	Inactive (DLA)			25000 GA
197	N7	Diesel Fuel Storagee	Inactive (DLA)			50000 GA

El Toro Building Guide

<i></i>	BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE	
	121	N8	Maint Hangar O1 Space	HMM-268	21106	EBVO	2000 SF	
	122	N9	Maint Hangar 01 Space	HMM-161	21106	EBVO	5340 SF	
	122	N9	Maint Hangar 02 Space	HMM-161	21107	EBVO	900 SF	
	123	N9	Maint Hangar 01 Space	HMM-161	21106	EBVO	1190 SF	
	123	N9	Maint Hangar 02 Space	HMM-161	21107	EBVO	5050 SF	
	124	N9	Maint Hangar 01 Space	HMM-163	21106	EBVO	5840 SF	
	124	N9	(Snack Bar #14)	Vacant	74005	EBLO	400 SF	
	125	N9	Maint Hangar 01 Space	HMM-163	21106	EBVO	4224 SF	
	126	N9	Maint Hangar 02 Space	HMM-163	21109	EBVO	4224 SF	
	127	N9	Tire Storage Paint	MALS-11	44112	EBDO	4026 SF	
	129	M9	Aviation Armament	MALS-11	21154	EBVO	39 00 SF	
	130	M9	Aviation Paint Area	MALS-11	21106	EBVO	2906 SF	
	131	M9	Storage	MALS-11	44112	EBDO	6240 SF	
	132	M9	Aviation Armament Shop	MALS-11	21154	EBVO	6240 SF	
	133	М9	Office/Training Facility	PMO			3390 SF	
	134	M8	Hangar Maint Admin	HMM-268	21107	EBVO	6240 SF	
	135	M8	(EM Mess)	Vacant	72210	EBHO	6240 SF	
	136	M8	NBC Storage	MAG-11	44112	EBDO	6240 SF	
	137	M8	Academic Instruction	MATCS-38(17110	EBAO	3120 SF	
	137	M8	Storage	MAG-11	44112	EBDO	3120 SF	
	138	M7	Electronics Maint Div	Sta/G-6	21710	EBBO	6240 SF	
	139	M7	3rd MAW Embark	3rd MAW	44112	EBDO	6240 SF	
	142	N9	Hazardous/Flam Storage	MALS-11	44130	EBDO	640 SF	
	146	P3	Standby Generator Bldg	Installation	81159	EAAO	360 SF	
	147	N4	Post Office Boxes Bldg	CSSD-14	73085	EBLO	829 SF	
	152	Q3	Grnds Equip Shed	Installation	21920	EBBO	112 SF	
	155	T6	Grnds Equip Shed	Installation	21920	EBBO	260 SF	
	156	T6	Storage Tank/Potable Water	Installation	84140	EAQO	10000	
	163	Q12	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF	
	164	Q12	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF	
	165	R12	Haz/Flam Storage (AVN Sup)	MALS-11	44130	EBDO	1250 SF	
	166	R11	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF	•
	167	S11	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF	
	169	R12	NBC Storage	MALS-11	44112	EBDO	140 SF	
	170	Q13	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF	
	171	Q13	(Inert Storehouse)	Vacant	42132	EBDO	140 SF	
>	172	P13	(Inert Storehouse)	Vacant	42132	EBDO	1250 SF	
	174	T7	Storage Tank/Potable Water	Installation	84140	EAQO	1000000	
	175	T6	Storage Tank/Potable Water	Installation	84140	EAQO	1000000	
	189	04	Waste Oil Storage	Supply	41182	ECJO	50000	,
	191	04	Waste Oil Storage	InactiveSupp	41182	ECJO	25000	
	206	N10	Storage Premium Gas	Supply	12450	ECJO	50000	
)	207	N10	Storage Premium Gas	Supply	12450	ECJO	50000	
	230	M9	Paint Locker	HMM-163	21931	EBBO	78 SF	
	231	N8	Paint Locker	HMM-163	21931	EBBO	78 SF	
	240	R4	EOD Storage	EOD	44110	EBDO	2000 SF	

El Toro Building Guide

	BLDG		DESCRIPTION	TENANT	CATCO	CAC	SIZE	
	751	M10	Hazardous/Flam Storage	MALS-11	44130	EBDO	126 SF	
	752	N10	Fuel Farm #5 Office	Supply	61010	EBFO	348 SF	
	753	T 7	Pest Control Bldg	Installation	44130	EBDO	1118 SF	
	755	R12	LOX/NOX Sheiter	Supply	14187	EBNO	150 SF	
	756	R12	LOX/NOX Shelter	MALS-11	14187	EBNO	150 SF	
	757	M2	Telephone Office	Sta/G-6			1716 SF	
	758	U 7	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPO	228 SF	
	759	T7 .	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPO	228 SF	
	760	U8	Vehicle Washrack Util Bldg	CSSD-14	89009	EAPO	228 SF	
	761	R11	ACFT Washrack Utility Bldg	MAG-11	89009	EAPO	684 SF	
	762	P13	Vehicle Washrack Util Bldg	MWSG-37	89009	EAPO	228 SF	
	763	N10	ACFT Washrack Utility Bldg	MAG-11	89009	EAPO	684 SF	
	764	M9	Vehicle Washrack Util Bldg	MALS-11	89009	EAPO	228 SF	
	765	S5	Vehicle Washrack Util Bldg	MWSS-371	89009	EAPO	228 SF	
	766	R5	Vehicle Washrack Util Bldg	Aero Club	89009	EAPO	228 SF	
	767	M7	Billboard	MAG-11	69010	ECLO	1 EA	
	769	T6	HW Collection Facility	Environment	83141	EAQO	204 SF	
	770	T7	HW Collection Facility	Environment	83141	EAQO	204 SF	
	771	S4	HW Collection Facility	MWSG-37	83141	EAQO	204 SF	
>	772	P13	HW Collection Facility	Environment	83141	EAQO	204 SF	
€ <i>J</i>	773 [CEO	13210	ECCO	1 EA	
		Report are identified with a star symbol or an arrow.		CEO	13210	ECCO	1 EA	
	775			CEO	13210	ECCO	1 EA	
	776			CEO	13210	ECCO	1 EA	
	777	The 1997 Building Guide identifies a hazardous waste collection facility at Building 772, located approximately east-northeast of Building 172.		CEO	13210	ECCO	1 EA	
	1			Environment	83141	EAQO	204 SF	
	119			Environment	83141	EAQO	204 SF	
	780 L			EOD	42135	EBQO	128 SF	
	781	G15	Ready Serv Magazine	Sta Ordn	42135	EBQO	512 SF	
	782	Q13	Golf Course Maint Bldg	MWR/Rec	74080	EBLO	1320 SF	
	783	P2	Exchange Admin	MWR/Ret	74003	EBLO	10683	
	783	P2	MCX Service Outlets	MWR/Ret	74009	EBLO	11037	
	784	Q13	DRMO Field Office Lat #2	DRMO	61010	EBFO	400 SF	
	785	Q11	Aviation Maint Bldg	VMFAT-101	21106	EBVO	5600 SF	
	786	P12	Aviation Armament	MALS-11	21154	EBVO	3000 SF	
	787	P12	NBC Defense Training	MWHS-3	17110	EBAO	4000 SF	
	788	L2	Recreation Pavilion	MWR/Rec	74078	EBLO	1500 SF	
	789	U6	Sewage Monitoring Station	Installation	83229	EHFO	36 SF	
	790	S13	Golf Cart Bldg	MWR/Rec	74080	EBLO	3471 SF	
	791	Т3	Officers Club	MWR/Hosp	74060	EBLO	22500	
	792	K7	Stables Barn	MWR/Rec	74079	EBLO	2880 SF	•
	793	О3	Mc Donald's	MWR/Hosp	74004	EBLO	3754 SF	
The same of	794	Q4	EOD Team Bldg	EOD	14320	EBPO	3600 SF	
	795	E14	EOD Range Bldg	EOD	14320	EBPO	340 SF	
	796	M10	Substation/Chiller Bldg	Installation	82610	EBPO	1518 SF	
	797	R5	AVGAS Fueling Station	DLA	12120	ECDO	800 GM	

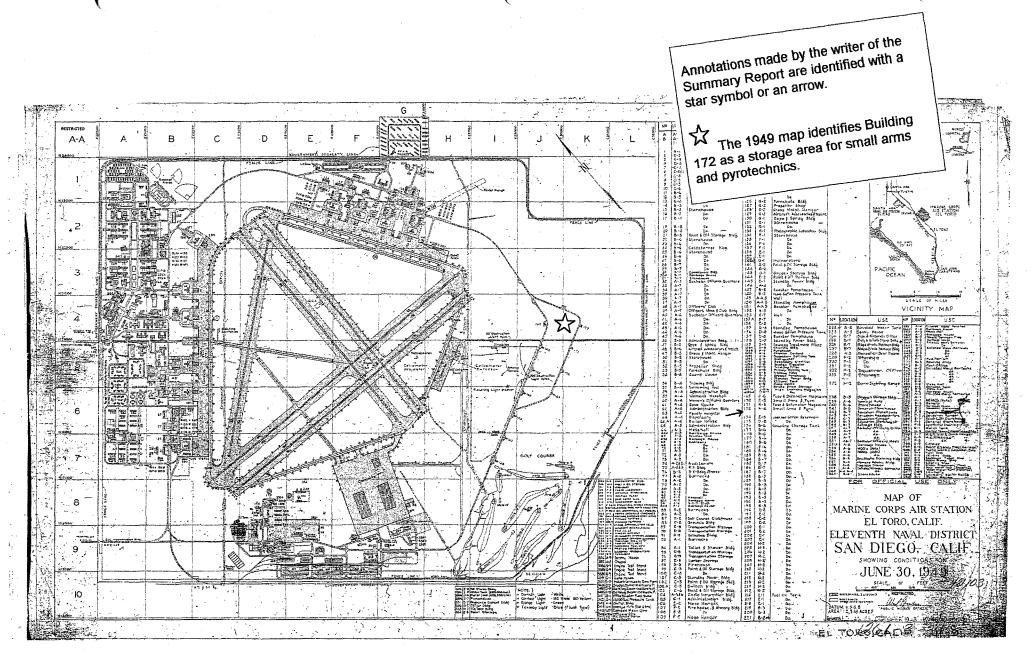


JANUARY 1948 FACILITY MAP

EXTRACT FROM JANUARY 1948 FACILITY MAP

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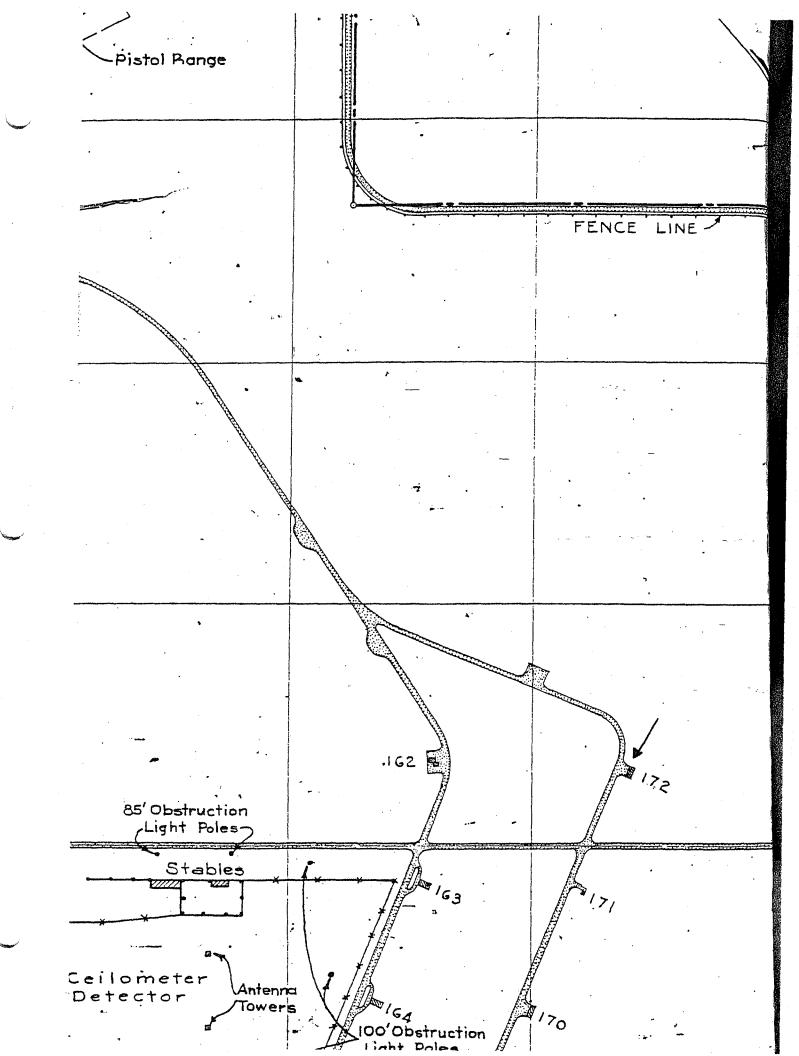
NO.	LOC.	USE	NO.	LOC.	USE	NO.	100
Δ .	A-5	OFFICERS' QUARTERS	141 -	G-2	PAINT & OIL STORAGE BLDG.	282	A-2
8	A-5	po	142	G-2	DO	283	A-1
1	A-4	GROUP ADMINISTRATION BLCS.	145	G-1	OXYGEN STORAGE BLDG	284	A-1
Z	G-3	NOSE HANGAR	144	E-2	PAINT & OIL STORAGE BLDG.	285	8-2
3	C-4	FIREHOUSE & ARMORY BLDG	145]	NOT CONSTRUT	286	B-
4	C-4	DO	146	A-4	STORAGE	287	8-2
5	C-4	NOSE HANGAR	147	8-2	BOOSTER PUMPHOUSE NO.2	288	C-2
6	C-485	7. —	148	B-2	10,000 GAL, PRESSURE TANK	289	C-2
7	C-5	NOSE HANGAR	149	A-A-5	1	290	E-1
8	C-5	FIREHOUSE & ARMORY BLDG.	150	A-A-5		291.	F-1
9	C-5	00	151	A-A-5		292	F-2
10	C-6	NOSE HANGAR	152	A-5	DO NO.3	293	H-5
[]	B-6	SQDN. HDQTRS.	153	C-7-	WELL "	294-A	H-5
12	8-5	00	153-A	F-7	20	295	G&F
13	B-4	DO	154	E-8	DO	296	G-6
14	8-3	DO	155	D-6	STANDBY PUMPHOUSE	297	F-8
15	B-3	STOREHOUSE	156	D-8	10,000 GAL. PRESSURE TANK	298	E-9
16	8-3	00	157	D-8	BCCSTER PUMPHOUSE NO. I	299	E-9
17	8-4	DO	158		NOT CONSTR.	300	D-6
18	B-4	DESTROYED BY FIRE	159	D-9	SEWAGE TREATMENT PLANT	301	D-6
19	B-5		159-A	D-9	CHLORINE BLDG.	302	D-6
20	8-5	DO	159-8	D-9	PUMPHOUSE (SEE END OF BLDG. LIST;	303	0-6
21	8-5	PAINT & OIL STORAGE BLDG.	160	J-3	INERT STORAGE MAGAZINE (R)	304	0-6
22	8-6	STOREHOUSE	161	J-4	00 (R)	305	D-6
23	B-6	00	162	3-4	SMOKE DRUM STORAGE	306	D-6
24	8-6	COLDSTORAGE BLDG.	163	J-5	HIGH EXPLOSIVE MAGAZINE	307	D-88
25	8-6	STOREHOUSE	164	J-6	200	307-A	D -S
26_	B-6	DO	165	J6	DO	308	G 😅
7	B-6	DO	166	1-6	00	309	F-9
28	8-7	00	167	1-7 1-7	00	310	G-8
29	8-7	DO			DO	311.	F-9
30 ! 31	B-7	LAUNDRY BLDG.	169	J-6	FUSE & DETONATOR MAGAZINE	312	F-9
32	8-7 A-7	STOREHOUSE	170	J-5	SMALL ARMS 8-PYROTECHNIC	313	F-9
33	A-7	BACHELOR OFFICERS QUARTERS	171	K-5 K-4	FUSE & DETONATOR MAGAZINE	314	G-9
;	A-7		172	K-4	SMALL ARMS & PYROTECHNIC 'SMOKE DRUM STORAGE (R)	315	G-1
5	A-7	90 50	174	E-8	1,000,000 GAL. RESERVOIR (WATER)	1 .	E-98
36	A-7	po }	175	D-8	DO		Z.
57	A-7	po	176	B-6	GASOLINE STORAGE TANK 25,000 GAL.	318 6	•
. B	A-7	OFFICERS MESS BLDG.	177	B-6	DO 50,000 SAL.		£-S
59		OFFICERS' MESS & CLUB	178	8-6	. DO 50,000-GAL.		EBF-
10		BACHELOR OFFICERS' QUARTERS	179	B-6	DO 25,000 GAL.		E-S
41	A-6	DO	1-8 D	B-6	DO 25,000 GAL.		DBE
2	A-6	D O	18:	B-6	DO 50,000 GAL.		G -9
13	A-6	00	182	8-6	00 50,000 GAL	1	G -9
4.	A-6	po	183	B-6	DO 25,000 GAL	1	
5	-A-6	po	184	B-7	DO 25,000 GAL	•	8-4
6	1	PHOTO LAB. BLDG.	185	B-7	DO 50,000 GAL.		B - 4
7		DOPE & SPRAY BLDG.	186	8-7	DO 50,000 GAL.	329	A-4
8		AIRCRAFT ACCESS., & MAINT. BLDG	187	B-7	DO 50,000 GAL.		0-0
9	_ 1	GROUP MAINT. HANGAR	188	B-3	DO 25,000 GAL		D -1
0		STOREHOUSE	189	B-3	DO 50,000 GAL.		E-
ii	B-5	DO	190	8-3	DO 50,000 GAL.		F-
2		PROPELLER SHOP	191	8-3	*:00 . 25,000 SAL.		F-:
3		PARACHUTE BLDG.	192	8-3	DO 25,000 GAL.		D-
4	8-4	GUARD HOUSE	193	8-3	DO 50.000 GAL.		A·S
5	-	GASOLINE STATION	94	B-3	00 50,000 GAL		
6		MAINT. & GARAGE BLDG.	195	B-3	DO 25,000 GAL.		
57		SWIMMING POOL	196	E-2	DO 25,000 GAL.	72	
58		BARRACKS, ENLISTED WOMEN	197	E-2	, DO 50,000 GAL.	320 6	9
39		ADMINISTRATION BLDG.	199	E-2	DD SD,DGO SAL.		
10		WOMEN OFFICERS QUARTERS	199	1	' DO 25,000 GAL		D- 1)
				!			

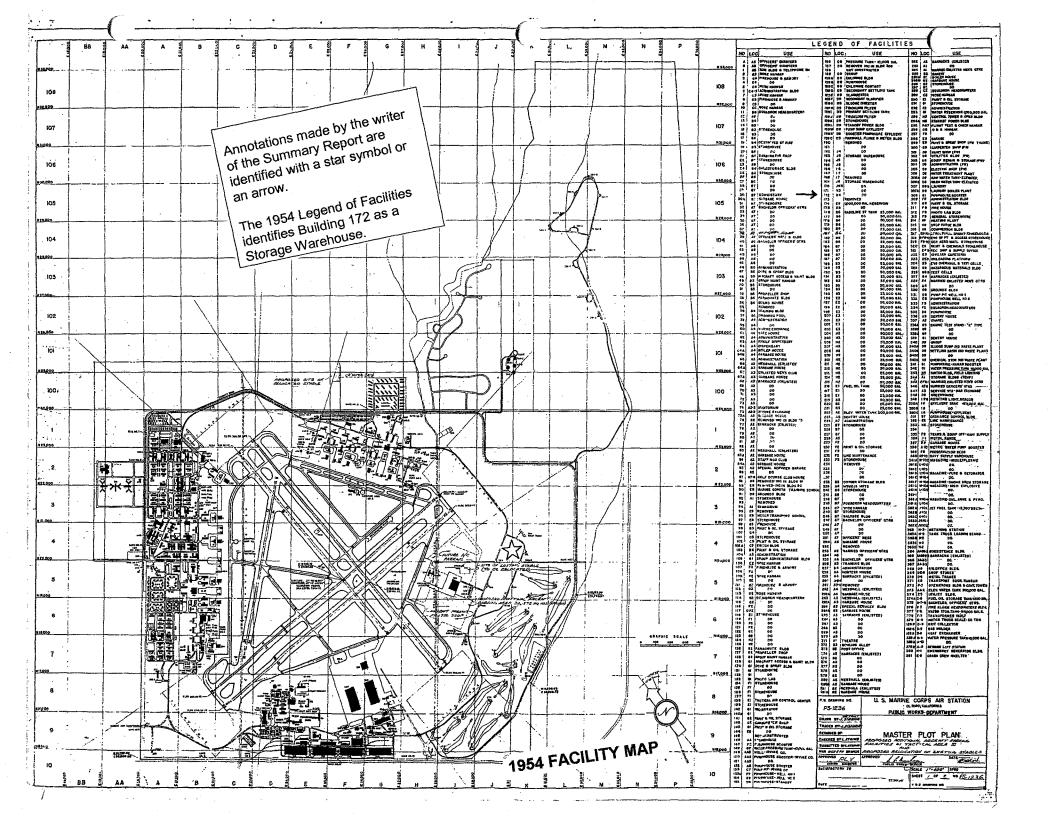


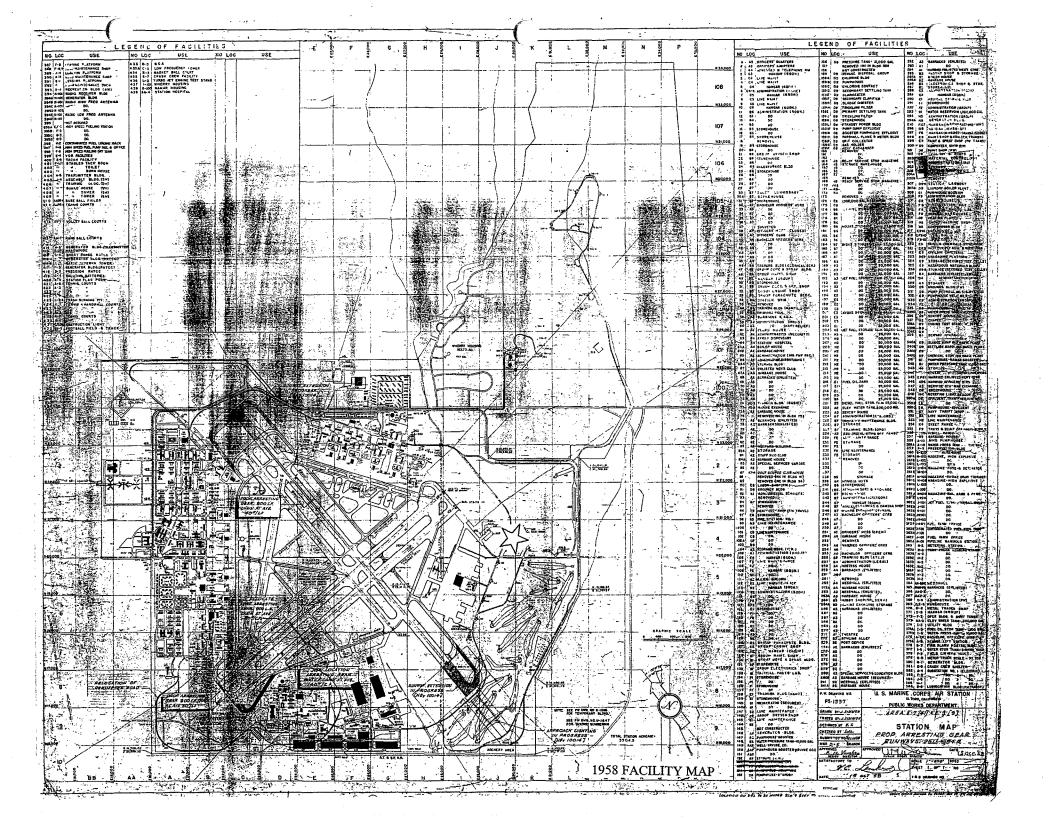
1949 FACILITY MAP

MAP OF MARINE CORPS AIR STATION EL TORO, CALIF. ELEVENTH NAVAL DISTRICT SAN DIEGO; CALIF SHOWING CONDITIONS ON JUNE 30, 1949 RESTRICTED_ BUILDINGS, EXISTING DATUM: U.S.G.S PUBLIC WORKS OFFICE AREA : 2,318 ACRES

g Bldg. ing Pool stration Bldg. 's Messhall 's Officer's Quarters louse stration Bldg. House istration Bldg. pall ge House Club ge House ks Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.	Do. ; Club Mess & Club Bldg. r Officer's Quarters Do. Do. Do. Do. Do. tration Bldg. Spray Bldg. Accessories & Maint. Maint. Hangar ouse Do. er Shop ute Bldg. House
15992+in 1638992+in 1772 45678901234567890123	153 A 154 155 156 157
9994566554 886666666677773333333333333333333333333	A - 5 - 7 - 7 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9
Standby Power Bldg. Effluent Tank Pump House Smoke Drum Storage High Explosive Magazine Do. Fuse & Detonator Magazine Small Arms & Pyro. Fuse & Detonator Magazine Small Arms & Pyro. 1,000,000 Gallon Reservoir Do. Gasoline Storage Tank Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.	Booster Pumphouse Do. Well Do. Do. Standby Pumphouse 10,000 Gallon Pressure Tank Booster Pumphouse Standby Power Bldg. Sewage Treatment Plant Chlorine Bldg. Pumphouse Chlorine Contact Secondary Settling Tank Clarigester Secondary Clarifier Sludge Digester Trickling Filter Primary Settling Tank Trickling Filter Grease Pumphouse
2	1 22222222222222





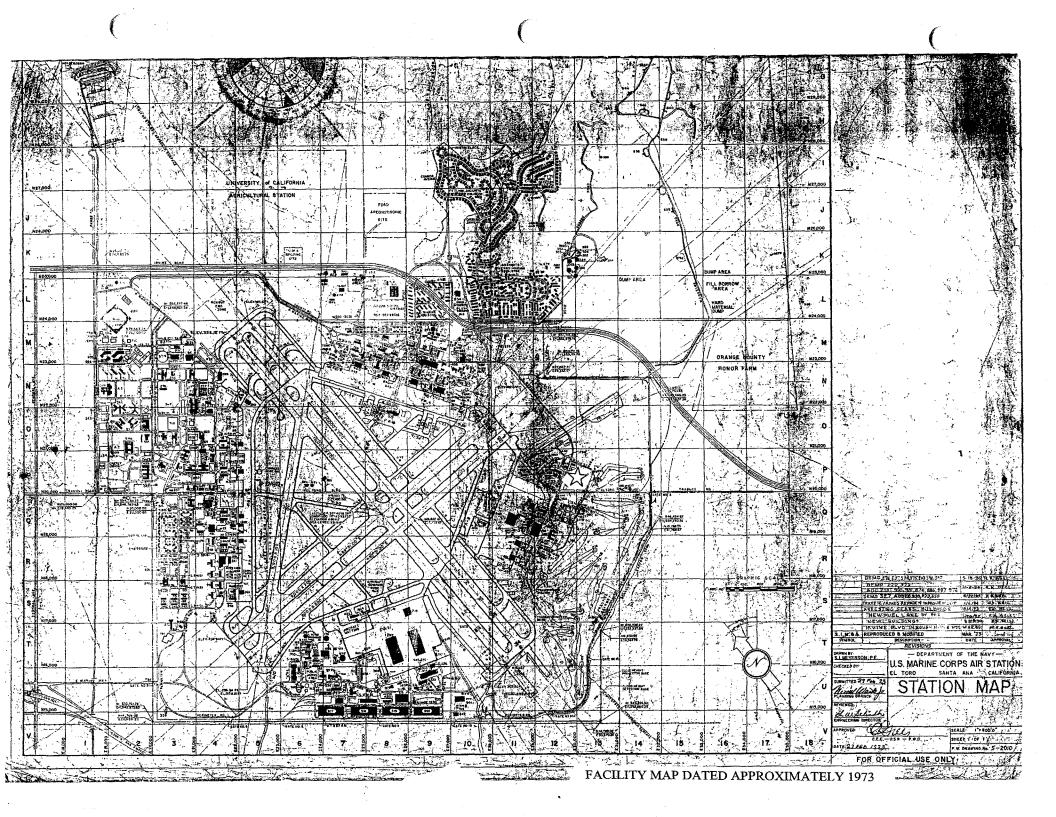


	6200- 14J PUBLIC Q	UARTERS		
_	6424 9,10,11,412	(OFFICER& ENLISTED) -	-300 FA-	
-	35001- M-7/8/9 PUBLIC S	WARTERS (ENLISTED)	50 FA	
	5025			
		UARTERS (OFFICER)	69 FA	
· (>	5169 R-3	inuarua (h. 14.5)/51/14.55553		
•	5201- L-9 RENTAL 1 5242	OUSING (NAMAR)(ENLISTED)	280 FA	
*		C QUARTERS (ENLISTED)	.364 FA	
• •	5520 L-10/11/12 INC.	GARAGES	364 FA	
	5521- 1-11/12 PUBLIC C	UARTERS (OFFICER)	192 FA	
	5762 J-10/11/12			. 1
	K-10/11 INC. GAF	RAGES		1
•		•		
:. ·		LLOWED BY AN ASTERISK - THE	IS* - ARE MULTIPLE	·
	CATEGORY USE BUI	LDINGS.	•	- 1
	2 INLEGG ATTERMISE	SHOWN THERELENNED USE OF E	VICTING DUILDING	
		S IS THE SAME AS THE CURREN		
	Milay on Samooron.	O TO THE ONIE RO THE OURRE		
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	IXM Allise			
	D.H. MEALLISTER 31 JULY 1973			·
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6	APPROVED BY			
	J. W. Selendh	SANTA ANA,	CALIFORNIA	•
	L.W. SELINDH			
		GENERAL DEVE	LOPMENT MAP	
1		INDEX OF S	TDIICTUDES	
	_	HADEY OF 2	INUCTURES	
		EXISTING & PLANN	IED PRE-M DAY	
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EXTRACT FROM 1973 INDEX OF STRUCTURES

1973

Control of the	the state of the s	
200	一次的實施學工作的企图	MAINT HANGAR OIS (CREW/EQUIP)
	1111	TO THE TRANSPORT OF STREET
	17 14 14 1 Little 16 10	FILL DDFCCHDF CHIT TIAL
5-3,1-5	115 4-9	MAINT HANGAR ONS (HIGH BAY) (25414)
	415*-	MATINE UNICAD DIE PROCESS
		LIVINIA HENNING TO TOUR MATERIAL DISTRICT
	145*	MAINT. HANGAR 025 (ADMIN)
	如何的自己 为一 有是是是是这种一	FULL PRESSURE SHIT FACILITY
]	118 R M-7	STORAGE, MARINE CORPS
- 1	119 M-8	STORAGE, MARINE CORPS
		ADMINISTRATIVE OFFICE (6240)
	19.120* N. L	PARACHUTE & SURVIVAL EQUIP. SHOP
. 1	120*	AVIATION ARMAMENT SHOP
		TIDE CTITION (COA)
		FIRE STATION (6240)
¥		STORAGE MARINE CORPS
	122 N-9	
		STORAGE MARINE CORPS
रिक्यु के कि	124 The N-9	STORAGE, MARINE CPRPS (6240)
	124*	ADMINISTRATIVE OFFICE
		AVIONICS SHOP (6240)
		PHOTOGRAPHIC BUILDING
		PARACHUTE & SURVIVAL EQUIP. SHOP
لفائد و و من	2-120 A22	AIRCRAFT GROUND SUPPORT EQUIP. SHOP
<i>T</i>		AIRCHAPTI AGROUND SUPPORT EQUIP. SHUP
2 4	129 M-9	
. 51	129*	ADMINISTRATIVE OFFICE
	26.130 ·	
	Ju≕ 131	ANALIATION ARMAMENT SHOP AND A SHOP
	132 M-9	AVIATION ARMAMENT SHOP
	135 to 2 3 M-9	MELOCATION EXCHANGE
	1	
<u>.</u>	134 M-8	STORAGE. MARINE CORPS
•	134 M-8	STORAGE, MARINE CORPS
	135 M-E	STORAGE, MARINE CORPS
	135 M-8	STORAGE, MARINE CBRPS GENERAL WAREHOUSE (6240)
	135 M-8 136 M-8 136*	STORAGE, MARINE CBRPS GENERAL WAREHOUSE (6240) AIRCRAFT GROUND SUPPORT EQUIP SHOP
	135 M=8 136 M=8 136* 137 M=8	STORAGE, MARINE CORPS GENERAL WAREHOUSE (6240) AIRCRAFT GROUND SUPPORT FOULP SHOP STORAGE, MARINE CORPS
	135 M-E 136 M-E 136* 137 M-E 138 M-3	STORAGE, MARINE CORPS GENERAL WAREHOUSE (6240) AIRCRAFT GROUND SUPPORT EQUIP. SHOP STORAGE, MARINE CORPS ELECTRONICS MAINT. SHOP
	135 M-8 136 M-8 136* 137 M-8 138 M-7 139 M-7	STORAGE, MARINE CBRPS GENERAL WAREHOUSE (624D) AIRCRAFT GROUND SUPPORT EQUIP. SHOP STORAGE, MARINE CORPS ELECTRONICS MAINT. SHOP PUBLIC WORKS SHOP
	135 M-E 136 M-E 136* 137 M-E 138 M-7 139 M-7 141 E-1	STORAGE, MARINE CBRPS GENERAL WAREHOUSE (624D) AIRCRAFT GROUND SUPPORT EQUIP. SHOP STORAGE, MARINE CORPS ELECTRONICS MAINT. SHOP PUBLIC WORKS SHOP HAZARDOUS & FLAMMABLE STORAGE
	135 M-E 136 M-E 136* 137 M-E 138 M-7 139 M-7 141 E-1 142 N-9	STORAGE, MARINE CORPS GENERAL WAREHOUSE (6240) AIRCRAFT GROUND SUPPORT EQUIP. SHOP STORAGE, MARINE CORPS ELECTRONICS MAINT. SHOP PUBLIC WORKS SHOP HAZARDOUS & FLAMMABLE STORAGE HAZARDOUS & FLAMMABLE STORAGE
	135 M-E 136 M-E 136* 137 M-E 138 M-7 139 M-7 141 E-1 142 N-9	STORAGE, MARINE CBRPS GENERAL WAREHOUSE (624D) AIRCRAFT GROUND SUPPORT EQUIP. SHOP STORAGE, MARINE CORPS ELECTRONICS MAINT. SHOP PUBLIC WORKS SHOP HAZARDOUS & FLAMMABLE STORAGE
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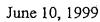


No Further Action Decision Documents and Maps for Selected Nearby Locations of Concern



Department of Toxic Substances Control

Edwin F. Lowry, Director 5796 Corporate Avenue Cypress, California 90630





Gray Davis Governor

Mr. Joseph Joyce BRAC Environmental Coordinator U.S. Marine Corps Air Station - El Toro AC/S, Environmental (1AU) P. O. Box 95001 Santa Ana, California 92709-5001

Dear Mr. Joyce:

CLOSURE REPORT APPROVAL: TEMPORARY ACCUMULATION AREAS 390A AND 390B AT MARINE CORPS AIR STATION (MCAS) EL TORO

The Department of Toxic Substances Control (DTSC) has reviewed the above subject document dated May 4, 1999, prepared by OHM Remediation Services Corp. The report summarizes the results of the field activities conducted at the Temporary Accumulation Areas (TAAs) 390A and 390B. TAA 390A (also known as Solid Waste Management Unit (SWMU) 122) a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) site referred to as Drum Storage Area west of Building 390. TAA 390B is SWMU 261 and 262, a Waste Oil Collection Drum area and a Diesel Fuel Storage Locker area, respectively. Building 390 is located in the southeast quadrant of the Station.

Based on the report, confirmation sampling analytical results were below residential cleanup goals. DTSC concurs with the findings and conclusions of the closure report and we hereby approve it.

If you have any questions, please contact Mr. Tayseer Mahmoud, Remedial Project Manager, at (714) 484-5418.

Sincerely,

Sharon Fair Unit Chief

Base Closure Unit

Office of Military Facilities

cc: See next page

Mr. Joseph Joyce June 10, 1999 Page 2

cc: Mr. Glenn Kistner, SFD-8-2
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX
Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

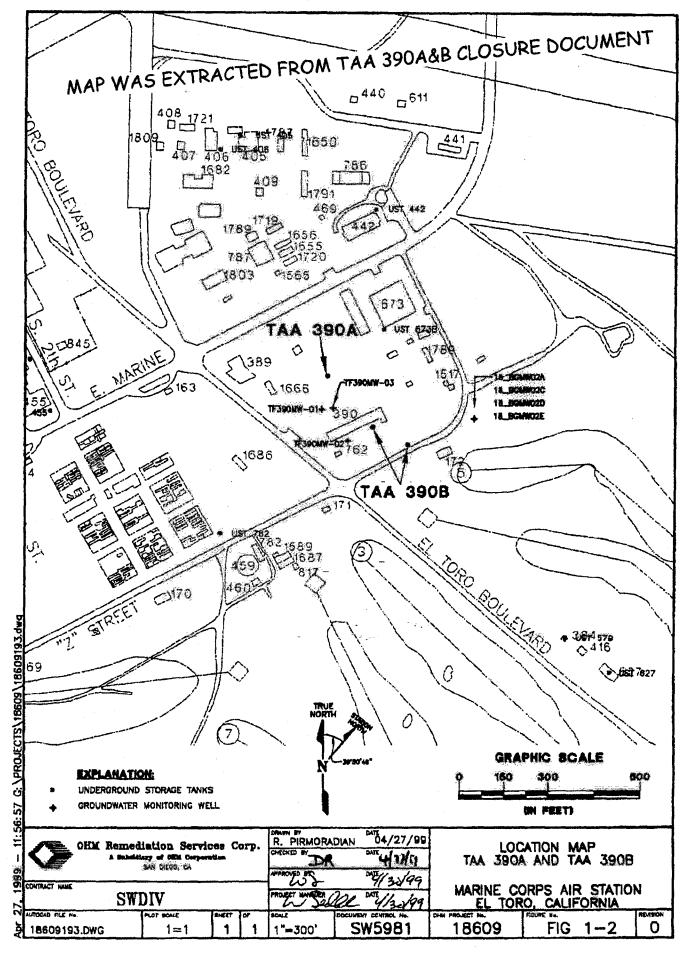
Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Mr. Gregory F. Hurley Restoration Advisory Board Co-chair 620 Newport Center Drive, Suite 450 Newport Beach, California 92660-8019

Ms. Polin Modanlou MCAS El Toro Local Redevelopment Authority 10 Civic Center Plaza, 2nd Floor Santa Ana, California 92703

Ms. Lynn Hornecker Remedial Project Manager Naval Facilities Engineering Command Southwest Division - Code 5BME.LH 1220 Pacific Highway San Diego, California 92132-5187

Mr. Bill Sedlak, P.E. 1T Corporation 3347 Michelson Drive, Suite 200 Irvine, California 92612-1692



DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Region 4 245 Wast Broadway, Suite 425 T Beach, CA 90802-4444



March 8, 1996

Mr. Dennis M. Bevis
Lieutenant Colonel, U.S. Marine Corps
Deputy Assistant Chief of Staff
Environment and Safety
Headquarters Marine Corps Air Station El Toro
P.O. Box 95001
Santa Ana, California 92709-5001

Dear Colonel Bevis:

ACCEPTANCE OF CLOSURE CERTIFICATION: HAZARDOUS WASTE STORAGE AREA (BUILDING 673-T3), MARINE CORPS AIR STATION EL TORO, SANTA ANA, CALIFORNIA (EPA ID NO. CA6170023208)

The Department of Toxic Substances Control (DTSC) has reviewed the Final Closure Certification Report for a hazardous waste container storage area at Marine Corps Air Station (MCAS) El Toro, dated November 1995. The Closure Certification Report certifies that you have closed the subject hazardous waste container storage area in accordance with the DTSC approved Closure Plan which was part of the Resource Conservation and Recovery Act (RCRA) Permit issued in August 1993. The DTSC hereby accepts the closure certification report and considers the container storage area (Building 673-T3) closed. Issuance of this letter terminates the RCRA Permit and MCAS El Toro shall cease storing hazardous waste in Building 673-T3 for periods greater than ninety (90) days.

The DTSC's acceptance does not certify that the hazardous waste storage area will not pose an environmental or public health threat. Neither does this acceptance release you from any liabilities associated with past hazardous waste management practices which occurred at your facility. Pursuant to the Health and Safety Code, Section 25187, the DTSC may issue an order specifying corrective action if the DTSC determines that there has been a release of hazardous waste or constituents into the environment from any solid waste management units or areas at

Mr. Dennis Bevis March 8, 1996 Page 2

a hazardous waste facility from which hazardous constituents might migrate, irrespective of whether the units or areas were intended for the management of wastes.

If you have any questions regarding this matter, please contact Mr. Tayseer Mahmoud at (310) 590-4891.

Sincerely,

Mohinder S. Sandhu, P.E., Chief Facility Permitting Branch

cc: Mr. John C. Scandura, Chief
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control
245 West Broadway, Suite 350
Long Beach, California 90802-4444

Ms. Paula Bisson, Chief
Permits Section
Hazardous Waste Management Division (H-3-1)
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105

Mr. Scott Simpson, Chief Statewide Compliance Branch Department of Toxic Substances Control 245 West Broadway, Suite 350 Long Beach, California 90802-4444 Mr. Dennis Bevis March 8, 1996 Page 3

cc: Mr. Tayseer Mahmoud
Remedial Project Manager
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control
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Lieutenant Hope Katcharian MCAS El Toro Director Environmental Department Marine Corps Air Station El Toro P.O. Box 95001 Santa Ana California 92709

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Mr. Vish Parpiani
Installation Restoration Program Manager
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Executive Officer
California Regional Water Quality Control Board
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Mr. Dennis Bevis March 8, 1996 Page 4

cc: Mr. Robert E. Merryman
Director, Environmental Health
Orange County Health Care Agency
2009 E Edinger
Santa Ana, California 92705

Ms. Carmen Santos
DTSC Region 4 Liaison
Corrective Action Section (H-3-2)
U. S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105



Winston H. Hickox

Agency Secretary

California Environmental Protection Agency

Department of Toxic Substances Control

Gray Davis Governor

Edwin F. Lowry, Director 5796 Corporate Avenue Cypress, California 90630

September 7, 2001

Mr. Dean Gould BRAC Environmental Coordinator Marine Corps Air Station El Toro Base Realignment and Closure P.O. Box 51718 Irvine, California 92619-1718

REVISION 2 OF THE CLOSURE REPORT, TEMPORARY ACCUMULATION AREA (TAA) 772, MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) reviewed the second revision of the above report dated March 12, 2001. DTSC does not concur with the recommendation that TAA 772 be identified as "closed." Based upon review of the sampling results, additional characterization of a potential release of polynuclear aromatic hydrocarbons (PAHs) needs to be conducted.

The report summarizes the decontamination and sampling activities performed at the TAA 772 site. TAA 772 (also reference as Solid Waste Management Unit (SWMU) 225) was identified as a temporary Hazardous Waste Management Unit (HWMU) southeast of former Tank Farm 1 during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) conducted in 1991. During site visits in January and October 1997, TAA 771 was observed to be an inactive TAA consisting of a concrete pad with a berm and roof. The original version of the report was prepared on December 17, 1999. Based on DTSC comments forwarded on March 22, 2000 and October 4, 2000, additional soil samples were collected in January 2001.

After review of the report, DTSC has comments regarding the detection of PAHs in one sample collected in January 2001. Upon review of the sample results, detected concentrations of benzo(a)pyrene and two additional PAHs, dibenz(a,h)anthracene

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

Mr. Dean Gould September 7, 2001 Page 2

ground surface (bgs) from sampling location HA-02. In that sample, benzo(a)pyrene was detected at a concentration of 110 micrograms per kilogram (μ g/kg) that exceeds the residential United States Environmental Protection Agency (EPA) Region IX Preliminary Remediation Goal (PRG) of 62 μ g/kg for soil. Further, the results of the screening risk assessment for the residential scenario indicate that the excess cancer risk (carcinogenic effects) of 1.6 x 10⁻⁶ exceeds the screening value of 1 x 10⁻⁶. The risk driver is benzo(a)pyrene that contributes to 84 percent of the risk. The other two PAHs were detected at concentrations below their respective residential PRG.

PAHs were not detected in the overlying sample collected from 1.5 feet bgs and a sample was not collected beneath 3 feet bgs. DTSC recommends that additional samples be collected and analyzed to characterize the horizontal and vertical extent of PAHs.

If you have any questions, please contact me at (714) 484-5395.

Sincerely,

Triss M. Chesney, P.E.

Remedial Project Manager Southern California Branch

Office of Military Facilities

cc: Ms. Nicole Moutoux

Remedial Project Manager

In Chesney

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Mr. Dean Gould September 7, 2001 Page 3

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Closure Report

Temporary Accumulation Area 772 Marine Corps Air Station

El Toro, California

SWDIV Contract No. N68711-93-D-1459, Delivery Order No. 0070 OHM Project No. 18609

Document Control No. SW5985

Revision 2

March 12, 2001

EXTRACTS

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.



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Prepared by:

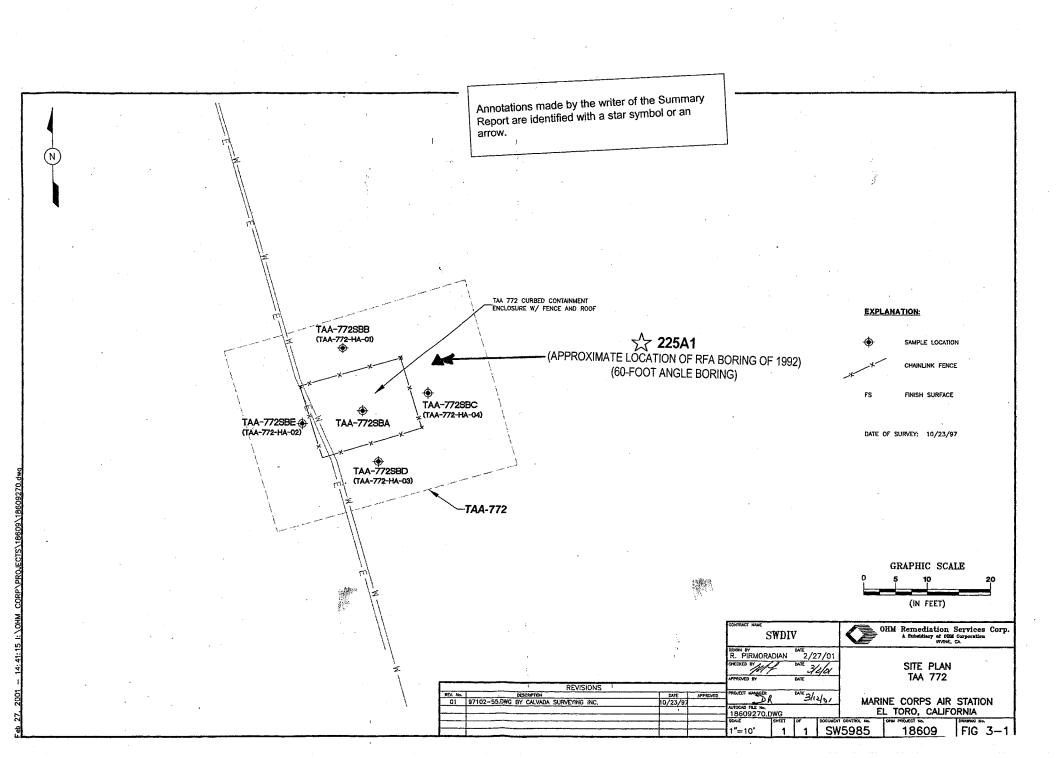
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MARK L. FISHEL





Department of Toxic Substances Control

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March 3, 2000

Mr. Dean Gould BRAC Environmental Coordinator Marine Corps Air Station El Toro BRAC Operations Office 1220 Pacific Highway San Diego, California 92132-5190

SUMMARY REPORT FOR AERIAL PHOTOGRAPH ANOMALIES APHO 20 AND APHO 21, MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) reviewed the above report dated November 30, 1999 and received by this office on December 10, 1999. The report presents the results of the record search activities and visual inspection of APHO 20 (also referenced as Science Applications International Corporation (SAIC) 164) and APHO 21 (SAIC 165). Both anomalies were identified on an aerial photograph dated June 27, 1967. APHO 20 was described as a possible excavation and APHO 21 was described as an open storage area. Both are located near the intersection of Z Street and North 3rd Street. Since APHO 20 and APHO 21 are located in close proximity to each other, the areas were combined and record search activities and visual inspection were conducted for the APHO 20/21 vicinity.

The report recommends a no further action status for APHO 20 and APHO 21 based on evaluation of field inspection results, environmental program documents, and historical property records. Evidence of excavations, disturbed ground, open storage activities, or liquids was not observed during the visual site inspection conducted by the Navy on November 10, 1999. It is possible open storage activities that were identified as APHO 21 were associated with storage activities at Defense Reutilization and Marketing Office (DRMO) Yard 3.

The APHO 20/21 vicinity includes part of the DRMO Yard 3 that was investigated as Solid Waste Management Unit (SWMU) 264 during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). No further action was recommended

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for DRMO Yard 3 in the Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California, prepared by Jacobs Engineering Group, dated July 16, 1993. However, a radiological survey will be conducted at DRMO Yard 3 as part of the Historical Radiological Assessment Program and the site continues to be managed under the RFA program.

A former hazardous waste temporary accumulation area (TAA) 772 (also referenced in the RFA as SWMU 225) is also included in the APHO 20/21 vicinity. Closure of TAA 772 is being managed under the RFA program.

Additionally, the report recommends that the description for APHO 20 in the next Base Realignment and Closure (BRAC) Cleanup Plan (BCP) update be revised to correlate to the description provided in the SAIC *Final Report, Aerial Photograph Assessment, MCAS El Toro* as follows: "APHO 20, identified as SAIC 164 on a 1967 photograph, is located near Z Street and North 3rd Street and includes part of DRMO Yard 3." And the description of APHO 21 be revised as follows, "APHO 21, identified as SAIC 165 on a 1967 photograph, is located near Z Street and North 3rd Street and includes part of DRMO Yard 3." Based on clarification provided by the Navy, DTSC understands that these revisions are necessary to correct previous transcription errors from the SAIC Final Report to the BCP.

Based on review of the summary report and since DRMO Yard 3 and TAA 772 are being managed under the RFA program, DTSC concurs with the proposed no further action status designation and comment revision for APHO 20 and APHO 21. The no further action status and revised description must be documented in the next BCP update.

If you have any questions, please contact me at (714) 484-5395.

Sincerely,

Triss M. Chesney, P.E. Remedial Project Manager

Ann M. Chesney

Southern California Branch Office of Military Facilities

cc: See next page

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